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UNIVERSITY

CATALOGUE

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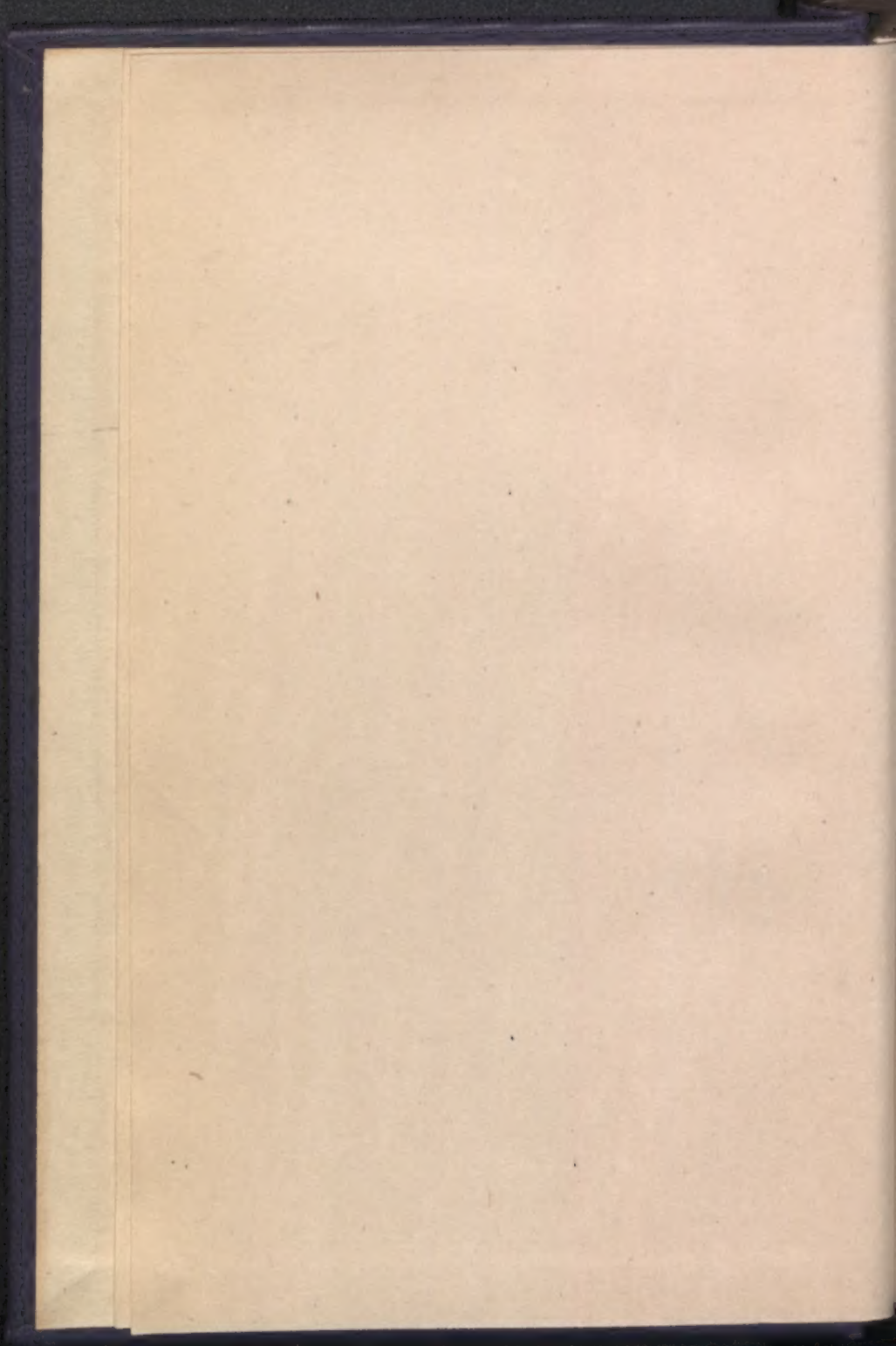
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UNIVERSITY

THE SUMMER SESSIONS

1946

No. 1

THE SUMMER SESSIONS

WASHINGTON, D. C.

CONCLUDED IN FEBRUARY  
MEMBERS

AT - THE UNIVERSITY

THE SUMMER SESSIONS

1940



THE  
GEORGE  
WASHINGTON  
UNIVERSITY  
BULLETIN

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VOL. XLV

No. I

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THE SUMMER SESSIONS

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WASHINGTON, D. C.

PUBLISHED IN FEBRUARY  
MCMXLVI

BY THE UNIVERSITY

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WASHINGTON  
UNIVERSITY  
BULLETIN

Vol. 1

No. 1

THE SUMMER SESSIONS

WASHINGTON, D. C.

PUBLISHED IN FEBRUARY  
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BY THE UNIVERSITY



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# CALENDAR OF THE SUMMER SESSIONS

1946

IN ALL COLLEGES, SCHOOLS, AND DIVISIONS EXCEPT  
THE LAW SCHOOL\*

Date	Day	Occasion
May 15 .....	Wednesday .....	Credentials and applications for admission to the first session and the fifteen-week term should be filed
June 3 .....	Monday .....	Registration for the first session and the fifteen-week term
June 4 .....	Tuesday .....	First session and fifteen-week term classes begin
July 1 .....	Monday .....	Registration for special six-week session in the School of Education
July 4 .....	Thursday .....	Independence Day. Holiday
July 10 .....	Wednesday .....	Credentials and applications for admission to the second session should be filed
July 24 .....	Wednesday .....	First session ends
July 25 .....	Thursday .....	Registration for second session
July 26 .....	Friday .....	Second session classes begin
Aug. 9 .....	Friday .....	Special six-week session in the School of Education ends
Sept. 2 .....	Monday .....	Labor Day. Holiday
Sept. 13 .....	Friday .....	Second session and fifteen-week term end
Sept. 25 .....	Wednesday .....	Fall-term registration for new students
Sept. 26, 27, and 28 ....	Thursday, Friday, and Saturday .....	Fall-term registration for former students

\* For the Law School calendar, see the Law School Summer Sessions bulletin.



THE UNIVERSITY





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\* On leave of absence 1946-47.



## THE UNIVERSITY

### HISTORY AND ORGANIZATION

The idea of a university in the Capital of the Nation was sponsored by George Washington, who during his public life urged the establishment of such an institution and who in his will left fifty shares of stock in the Potomac (Canal) Company for the endowment of a university to be established in the District of Columbia "to which the youth of fortune and talents from all parts thereof might be sent for the completion of their Education in all the branches of polite literature;—in arts and Sciences,—in acquiring knowledge in the principles of Politics & good Government".

Columbian College in the District of Columbia was chartered by an act of Congress of February 9, 1821. In 1873 the name was changed to "Columbian University" and in 1904 to "The George Washington University".

The University as it is now organized consists of the Junior College, comprising the work of the freshman and sophomore years; Columbian College, the senior college of liberal arts, which offers work leading to the Bachelor's and Master's degrees; the Graduate Council, which offers work leading to the degree of Doctor of Philosophy; the professional schools, including Medicine, Law, Engineering, Pharmacy, Education, and Government; the Division of University Students, which leads to no degree but makes the work of the University accessible to the mature student; the Division of Special Students, in which are registered students who wish to work toward degrees but who lack the qualifications for admission to degree-granting schools or colleges; the Division of Extension; and the Inter-American Center.

### ACADEMIC STATUS

The George Washington University is on the approved list of the Association of American Universities, the standard accrediting body for the United States. This fact not only assures to students the academic standards of this accrediting body, but also is important to those who desire to transfer credits from one institution to another.

The University is also accredited by its regional accrediting agency, the Middle States Association of Colleges and Secondary Schools, and is on the approved list of the American Association of University Women.

The Law School is a charter member of the Association of American Law Schools and is approved by the Council of Legal Education of the American Bar Association. The School of Medicine is a member of the Association of American Medical Colleges, and is one of the medical colleges which have been designated continuously as "class A" by the American Medical Association. The School of Pharmacy is accredited by the American Council on Pharmaceutical Education and is a member of the American Association of Colleges of Pharmacy. The School of Engineering is on the accredited list of the Engineers' Council for Professional Development.

#### LOCATION

The George Washington University is in downtown Washington, four blocks west of the White House and east of the Potomac River with its extensive parkway. Within a few blocks are the buildings housing the offices of many of the departments of the Government, including the Department of State, the Department of the Treasury, the Department of War, the Department of Justice, the Department of the Navy, the Department of the Interior, the Department of Agriculture, the Department of Commerce, and the Department of Labor. The Corcoran Gallery of Art, the Pan American Union Building, and the National Academy of Sciences are also near by, and the Capitol and the Library of Congress are readily accessible.

#### EDUCATIONAL FACILITIES

Buildings, grounds, and equipment of the University are valued at over \$6,000,000. The buildings of the colleges, schools, and divisions offering Summer Sessions work are in the vicinity of Twenty-first and G Streets NW., except for the School of Medicine which is at 1335 H Street NW.

*The University Library.*—The University Library contains more than 160,000 volumes, and with the exception of the law and medical collections is housed in the Library building.

Regulations governing the use of the library: the circulation of books, and the use of reserve books and periodicals are available at the service desks of the Library.

#### OTHER LIBRARY FACILITIES IN WASHINGTON

The student has access also to the Library of Congress; the Public Library of the District of Columbia and its branches; the Library of the Carnegie Endowment for International Peace; the



Library of the Pan American Union; the Library of the Bureau of Railway Economics; the Library of the United States Department of Agriculture, with its scientific departmental collections; the Library of the United States Office of Education; the Army Medical Library; the Library of the Smithsonian Institution; and many other great special collections of the government departments.

#### RESEARCH FACILITIES OF WASHINGTON

The arrangement of the summer schedule of classes permits the full-time student to avail himself of the opportunity to study, at first hand, the working of the Federal Government and so to form a background for intelligent and useful citizenship.

In the departmental libraries of the Federal Government are a multitude of reports made by eminent specialists in all fields of science on the results of study and research in the bureaus, experimental stations, laboratories, museums, and observatories of the Nation.

In addition to the governmental collection the student has access to the research facilities of such scientific and educational groups, whose headquarters are situated in Washington, as the Carnegie Institution, the American Council on Education, the American Council of Learned Societies, the National Academy of Science, the National Research Council, the National Education Association, and the National Geographic Society.





THE SUMMER SESSIONS

1946





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 Lawson Edwin Yocum, Ph.D., *Professor of Botany*  
 Donnell Brooks Young, Ph.D., *Professor of Zoology*



## THE SUMMER SESSIONS

The work of the Summer Sessions has been planned to meet the needs of full- and part-time students; of those who are accelerating the college work; and of those who, because of the pressure of employment, are unable to attend classes daily.

During the summer of 1946, courses are offered in the Junior College, Columbian College (the senior college), the Law School,\* the School of Engineering, the School of Education, and the School of Government.

Students in the School of Pharmacy have the opportunity of taking, during the summer, many of their required and elective courses offered in the Junior College and Columbian College curricula.

Students may enter the Summer Sessions at the beginning of any one of the sessions.

In the first and second sessions classes meet daily, Monday through Friday, for a period of seven and one-half weeks. During each session the work of a regular term of the academic year is completed.

In the fifteen-week term classes meet on the normal-term basis—in most cases three times a week. During the fifteen weeks the work of a regular term of the academic year is completed.

In the special six-week session of the School of Education classes meet daily, Monday through Friday.

### ADMISSION

A student desiring admission must obtain from the Office of the Director of Admissions an application blank which he must fill out completely and return to the Office of the Director of Admissions.

Entrance requirements are stated in this bulletin under the various colleges, schools, and divisions. Further details may be obtained from the Director of Admissions.

Applications for the Summer Sessions should be filed by May 15 for the first session and the fifteen-week term and by July 10 for the second session. (See page 65.)

### METHODS OF ADMISSION

#### For the Student Seeking a Degree

Applications for admission to the first session and the fifteen-week term will be accepted as late as May 15. However, since

\* See special bulletin.

admission to students seeking degrees is not granted until records of previous academic work have been evaluated, it is important that such records be submitted as early as possible. If, by May 20, 1946, the applicant has not received a Letter of Admission to the University, which he must present at the time of registration, he should take a scholastic aptitude test on one of the dates listed below. If he makes a qualifying score, he may be admitted as a Special Student pending transfer to the appropriate college, school, or division.

Applicants to professional schools such as Law, Engineering, Pharmacy, etc., may not qualify by the above process but must arrange to have complete records on file by May 15, 1946, for the first session or the fifteen-week term and by July 9 for the second session of the summer term.

*Scholastic aptitude testing schedule.*—Scholastic aptitude tests will be given in Room 105 of Building D at 10:00 A.M. and at 8:00 P.M. on the following days: May 20,\* 22,\* 24, 27, 29, and 31.

#### RECORDS OF PREVIOUS ACADEMIC WORK

An applicant from a secondary school must send the high school record form furnished by the University to his high school principal, with the request that the principal fill out the form and mail it direct to the Office of the Director of Admissions.

An applicant who has previously attended an institution of higher learning should request the registrar of that institution to mail direct to the Office of the Director of Admissions a transcript of his record. If he has attended more than one such institution he must request the registrar of each institution to send to the Office of the Director of Admissions a transcript of his record, even though credits were not earned, together with an honorable dismissal.

#### For the Student Not Seeking a Degree

The student in this group must obtain the approval of the Dean of the Division of University Students.

Students 21 years of age or over who are not interested in working for a degree in this University may be admitted to the Division of University Students to take courses for which they have adequate preparation. In special instances, with the permission of the instructor, a person may register as an auditor in a class without being required to take active part in the exercises or to pass examinations, but no credit will be allowed for such attendance.

\* At 10:00 A.M. on May 20 and 22 the scholastic aptitude test will be given in Room 205 of Building D.

Students matriculated for degrees in other institutions who wish to take certain courses in this University will be admitted to the Division of University Students for the summer only, to the extent that our facilities permit.

### REGISTRATION

Before a student may register he must have satisfied the Office of Admissions that he is qualified to enter the University.

A student previously matriculated in the University but not in attendance during the term preceding this registration must file an application for readmission in advance of registration.

### TIME AND PLACE OF REGISTRATION

Registration, except in the Law School, will be conducted in the Office of the Registrar, Building C, 2029 G Street, NW., from 9:30 A.M. to 7:30 P.M., Monday, June 3, for the first session; Thursday, July 25, for the second session.

Registration in the Law School will be conducted in Stockton Hall from 2:00 to 8:00 P.M., Monday, June 3, for the first session; Monday, July 29, for the second session.

### LATE REGISTRATION

A fee of \$5 will be charged for all registrations after the stated registration day. Registration for credit closes on the third day after the registration day.

### CHANGE IN REGISTRATION

Change in registration may be made only with the permission of the adviser or major professor and the dean or director of the college, school, or division concerned.

### VETERANS

In order to insure continuous subsistence and tuition payments, veterans are advised to register on June 3 for the entire summer program, which may consist of 15-week courses, 7½-week courses from the first and second sessions, or a combination of 15-week and 7½-week courses. Changes in program may be made, if necessary, at the end of the first session.



## FEES AND FINANCIAL REGULATIONS

By authorization of the Board of Trustees, the following fees have been adopted:

## UNIVERSITY FEE

For each session or any part thereof*	
For the student registered for credit.....	\$4.00
For the auditor†.....	2.00

## TUITION FEES

For each credit hour.....	8.00
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## ADDITIONAL FEES AND DEPOSITS

Additional fees and deposits, such as laboratory and material fees and breakage deposits, are charged in certain courses as indicated in the course descriptions. Such fees are due with the tuition fee for the course. Breakage of apparatus is charged against the individual student, and the amount of breakage deposit paid in excess of actual breakage will be credited to the student's account at the end of the course.

## SPECIAL FEES

Late-registration fee, for failure to register within the designated period	5.00
Service fee, for late payment of tuition (see "Payment of Fees").....	1.00
Reinstatement fee, for reinstatement after suspension for delinquency in fees .....	5.00
For examinations to qualify for advanced courses, and for all special examinations, for each subject.....	5.00

## UNIVERSITY FEE

Payment of the University Fee covers all expenses incident to registration and, in addition, secures to each student in the Summer Sessions the following University privileges: (1) the issuance of three certified transcripts of record, if and when desired; (2) the use of the University library facilities, except as otherwise designated; (3) medical and hospital services described below. These privileges, with the exception of the issuance of transcripts, cease when the student withdraws or is dismissed from the University.

**Medical and Hospital Services.**—These services include: (1) three visits by the University physician or surgeon, office or residence (District of Columbia) in any one illness, exclusive of a specialist, surgical operation, laboratory, or X-ray examinations; (2) hospitalization, including board, medicine, and nursing in the University Hospital for not more than two weeks during a school year—the necessity to be determined by the Director of Health Administration. The duration of hospitalization period (maxi-

\* Students registered for only those courses which extend over a single period of fifteen weeks must pay a University fee of \$8.  
 † Payment of this fee does not entitle auditors to the general privileges to which payment of the preceding fee entitles resident students

mum, two weeks) is also to be determined by the Director of Health Administration.

The student is allowed, if he so desires, to engage physicians and nurses of his own choice, but when he does so he will be responsible for the fees charged.

This medical benefit does not apply to illness or disability incurred previous to the University term or prior to payment of the University registration fee.

#### PAYMENT OF FEES

All fees are payable at the Office of the Cashier, 725 Twenty-first Street NW. No student is permitted to complete registration or to attend classes until all fees are paid. Fees for each session are due in advance at the time of registration.

In exceptional cases, subject to the approval of the Comptroller, the student may sign a contract for the fees for courses which extend throughout one unbroken fifteen-week term, permitting two payments as follows: one-half plus the University fee and deposits at the time of registration and one-half on July 25. The student whose fees are paid between July 26 and August 2 is charged a service fee of \$1. A student who fails to make this payment by August 2 will be suspended and may not attend classes until he has been officially reinstated and has paid all accrued fees and a reinstatement fee of \$5. A suspended student may not be reinstated for the session after one week from the date of suspension. Applications for reinstatement are to be made to the dean of the college or school or the director of the division in which the student is registered.

An auditor pays a University fee of \$2.00 a session and all other fees chargeable to the student registered for credit except the late-registration fee.

#### WITHDRAWALS AND REFUNDS

Registrations, except for courses which extend throughout one unbroken term of fifteen weeks, are for the session, and no refunds or rebates are allowed, unless the registration is in advance and the course is dropped before the day of registration for the session involved.

If notice of withdrawal or change in schedule involving courses which extend over an unbroken term of fifteen weeks is received by the dean of the college or school or the director of the division concerned on or before July 22, the second payment will be can-

celled or adjusted. Notice to an instructor is not acceptable notice. In no case will the University fee or any part of the initial payment of tuition be refunded because of nonattendance upon classes.

Payments apply only to the session or term for which registration charges are incurred and in no case will these payments be credited to another session or term.

A student granted "war leave" during a term will be credited with tuition payments made prior to the granting of such leave, which credit will be applicable toward a subsequent registration.

Any student in chemistry who fails to check out of the laboratory on or before the date set by the instructor, unless excused by the instructor, shall forfeit the balance of his deposit. A student dropping a course before the end of the session or term must check out of the laboratory at once.

No permission to withdraw and no certificate for work done will be given a student who has not a clear financial record.

As the fiscal year of the University ends on August 31, no requests for refunds can receive consideration after that date.

## STUDENT LIFE

### SOCIAL AND RECREATIONAL PROGRAM OF THE UNIVERSITY

Provision is made for the social and recreational side of student life during the Summer Sessions. The Annual Summer Sessions Party opens the season and is followed by Friday Evening Starlight Dances on the Lisner Terrace. Teas are arranged so that new students will have a chance to become acquainted with their fellow students.

The city of Washington affords a variety of recreational opportunities. Wooded trails for hiking, riding, and picnicking wind through Rock Creek Park.

The National Symphony Orchestra presents a series of weekly concerts at the Potomac Watergate nearby.

### LIVING ACCOMMODATIONS

*Women Students.*—The Hattie M. Strong Residence Hall: single rooms with breakfast and dinner are \$55 a month; double rooms with the same service are \$48 a month a person.

Staughton Residence Hall: single rooms are \$27 a month; double rooms are \$20 a month a person.

Application for room reservations should be made well in advance. Forms for application, together with detailed information may be obtained from the Adviser on Women's Activities.



The prices stated are subject to change without notice.

*Men Students.*—For information concerning dormitories for men, consult the Director of Activities for Men.

### UNIVERSITY REGULATIONS

*Academic Credit.*—The Summer Sessions are an integral part of the University. Academic credit for completed work will be given toward the appropriate degrees in the various colleges and schools of the University in accordance with their separate regulations and requirements.

*Residence.*—Summer Sessions work may be counted in residence but the candidate for a degree must satisfy the residence requirements of the school or college concerned as stated in the general catalogue.

*Amount of Work.*—No full-time student may take more than nine credit hours of work during either session; no employed student, more than six hours. By carrying work in both sessions, a full-time student may earn as much as eighteen credit hours; an employed student, twelve hours.

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The right is reserved to drop any student whenever, in the interest of the student or the University, the Faculty deems it advisable to do so.

The University is not responsible for the loss, in any University building, of personal property belonging to a student.

The University and its various colleges, schools, and divisions reserve the right to modify or change the requirements, rules, and fees of the University. Such regulations shall go into force whenever the proper authorities may determine and shall apply to every student of the University.

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Detailed information concerning admission; scholarship requirements of the individual colleges, schools, and divisions; and requirements for degrees may be obtained from the general catalogue which is available on request at the Office of the Director of Admissions.

THE COLLEGES, SCHOOLS, AND DIVISIONS





## THE COLLEGES, SCHOOLS, AND DIVISIONS

Information concerning specific requirements for degrees is omitted from this bulletin. For such information, the student is referred to the general catalogue.

### THE JUNIOR COLLEGE

The Junior College includes the first two years of college work. Its curricula are intended to continue the studies of a general cultural nature begun in secondary school, and to lay a foundation for the more specialized work which is to follow.

The Junior College also provides the preprofessional work required for admission to the schools of Medicine, Law, Pharmacy, Education, and Government.

In addition it provides a two-year terminal curriculum in Secretarial Studies and a two-year terminal curriculum in Accounting for students who wish strictly vocational training in these subjects.

#### THE DEGREE OF ASSOCIATE IN ARTS

The Junior College offers work leading to the degree of Associate in Arts.

#### ENTRANCE REQUIREMENTS

An acceptable certificate of graduation from an accredited secondary school is required. The acceptability of the certificate depends upon the student's character and the quality of his work.

### COLUMBIAN COLLEGE

Columbian College, the senior college of liberal arts and sciences, comprises the work of the junior and senior years and the Master of Arts and Master of Science disciplines.

#### THE DEGREES

Columbian College offers work leading to the following degrees: Bachelor of Arts, Bachelor of Science, Master of Arts, and Master of Science.

In cooperation with the School of Medicine, Columbian College offers work leading to the combined degrees of Bachelor of Arts and Doctor of Medicine.

In cooperation with the Law School, Columbian College offers work leading to the combined degrees of Bachelor of Arts and Bachelor of Laws.

## ENTRANCE REQUIREMENTS

*For the Bachelor's Degrees.*—The degree of Associate in Arts is based on the appropriate curriculum in the Junior College, or the equivalent, is required. Scholarship requirements may be somewhat higher than those for graduation from the Junior College.

*For the Master's Degrees.*—An approved Bachelor's degree from an accredited institution and a transcript of studies previously pursued, showing a superior quality of work in the major field, are required.

## THE GRADUATE COUNCIL

The Graduate Council offers work leading only to the degree of Doctor of Philosophy. Because the basis for work under the Graduate Council is primarily creative research, regular study in specific courses is considered quite incidental and is therefore not emphasized in connection with the curricula of the Summer Sessions. A student wishing to work under the disciplines of the Graduate Council will consult the Chairman of the Graduate Council for information concerning credentials and candidacy.

## THE LAW SCHOOL

A full term of work will be offered in the Law School during the 1946 Summer Sessions. For specific information, see the special bulletin.

## THE SCHOOL OF ENGINEERING

## THE DEGREES

The School of Engineering offers work leading to the following degrees: Bachelor of Civil Engineering, Bachelor of Electrical Engineering, Bachelor of Mechanical Engineering, and Bachelor of Science in Engineering.

## ENTRANCE REQUIREMENTS

An acceptable certificate of graduation from an accredited secondary school, or the satisfactory passing of College Entrance Board examinations in secondary school subjects selected with the approval of the Director of Admissions is required.

Nine and one-half of the fifteen units required for entrance must be distributed as follows: three in English, two in algebra, one in plane geometry, one in plane trigonometry, one in physics or chemistry, and two in one foreign language or history. A graduate of an approved high school who does not obtain for admission the particular subjects required for the engineering curriculum but who does present not less than fifteen acceptable units, may be admitted on condition, if such deficiency in the distribution of units does not exceed two units. If the deficiency is more than two units, it is frequently possible to

admit an otherwise qualified student to the Junior College (liberal arts college) as an unclassified student for such period as may be necessary to permit him to make up such units by taking college courses designed for this purpose.

## THE SCHOOL OF EDUCATION

The School of Education prepares teachers, supervisors, and administrators for educational service and offers opportunities to teachers of experience to extend their education. The schedule of courses is arranged to meet the needs of employed students as well as those able to devote full time to their studies. It offers both graduate and undergraduate work.

### THE DEGREES

The School of Education offers work leading to the following degrees: Bachelor of Arts in Education, Bachelor of Science in Home Economics, Bachelor of Science in Physical Education, Master of Arts in Education, and Doctor of Education.

### ENTRANCE REQUIREMENTS

*For the Bachelor's Degree.*—The satisfactory completion of two years of approved college work, or graduation from an approved two-year normal school, or the equivalent, is required.

*For the Master's Degree.*—A Bachelor's degree from an accredited college, or the equivalent, and the approval of the Committee on Admissions and Advanced Standing are required.

*For the Doctor's Degree.*—A Master's degree from an accredited college, or the equivalent, and the approval of the Faculty of the School of Education are required.

## THE SCHOOL OF GOVERNMENT

### THE DEGREES

The School of Government offers work leading to the following degrees: Bachelor of Arts in Government with a major in Foreign Affairs, Statistics, Accounting, or Business Administration; and Master of Arts in Government with a major in the above fields and also in Government and Economic Policy, Public Administration, Public Personnel Administration, or Occupational Counseling.

### ENTRANCE REQUIREMENTS

*For the Bachelor's Degree.*—The satisfactory completion of two years of approved college work, or the equivalent, is required.

*For the Master's Degree.*—An approved Bachelor's degree based on the proper training for the field selected by the student for graduate study.



### THE DIVISION OF UNIVERSITY STUDENTS

The Division of University Students makes the work of the University, in its several colleges and schools, accessible to the mature student who is not working toward a degree in this University.

#### ENTRANCE REQUIREMENTS

The student who is twenty-one years of age or over (or in special cases arising out of the war, nineteen years or over) and who has not attended another institution within the year preceding his application to this University may register without filing records.

The student twenty-one years of age or over who has attended another institution within the year preceding application to the University must request a statement of good standing and honorable dismissal from the last institution attended.

### THE DIVISION OF SPECIAL STUDENTS

Students who wish to work toward degrees in this University but who do not qualify for admission to degree-granting schools and colleges are registered in the Division of Special Students.

#### FOREIGN SERVICE EXAMINATIONS REVIEW COURSE

During the summer of 1946, the University will offer a twelve-week review course in preparation for the Foreign Service Examinations to be held September 30 and October 1. This course is open to members of the Armed Forces and veterans who meet the following eligibility requirements of the State Department: (1) date of birth: between July 1, 1915, and July 1, 1925; (2) citizenship: American citizenship of at least fifteen years standing; (3) marital status: if married, wife or husband must be an American citizen; (4) education: Bachelor's degree or the equivalent from an accredited college or university; or the completion before entering the Armed Services, of three-fourths of the course requirements for such a degree; (5) language: ability to read with reasonable facility, French, German, or Spanish.

#### APPLICATION FOR ADMISSION

Application for admission should be received by June 1, 1946.

#### FEES

The cost of this twelve-week course, including medical privileges, library facilities, etc., is \$152, which is covered by the educational benefits of the GI Bill of Rights.

For further information and application forms, write to the Dean of the School of Government.

COURSES OF INSTRUCTION





## COURSES OF INSTRUCTION

### EXPLANATION OF COURSE NUMBERS

*An odd number preceding the name of the course indicates that the course is offered in the first session; an even number, that it is offered in the second session. The letter "x" following an odd number (e.g., 5x) indicates that the course, normally given in the first session, is given in the second session. The letter "x" following an even number (e.g., 6x) indicates that the course, normally given in the second session, is given in the first session. The letter "S" following the number of a course indicates that the course is given in one term of fifteen weeks.*

*First-group courses.*—Courses numbered from 1 to 100, are planned for the student in the freshman or sophomore year. With the approval of the adviser and the dean, they may also be taken by a junior or senior. In certain instances, they may be taken by a graduate student to make up undergraduate deficiencies or as prerequisite to advanced courses, but they may not be credited toward a higher degree.

*Second-group courses.*—Courses numbered from 101 to 200, are planned for the student in the junior or senior year. They may be credited toward higher degrees only when registration for graduate credit has been approved at the beginning of the course by the dean responsible for the graduate work and by the officer of instruction, and when the completion of additional work has been certified by the officer of instruction.

*Third-group courses.*—Courses numbered from 201 to 300, are planned primarily for the graduate student. They are open, with the approval of the officer of instruction, to the qualified senior; they are not open to the Junior College student.

### INDICATION OF THE AMOUNT OF CREDIT

The number of hours of credit given for the satisfactory completion of a course is in most cases indicated in parentheses after the name of the course.

A credit hour represents one class hour or a minimum of two laboratory hours a week for a period of fifteen weeks.

The University reserves the right to change or withdraw any of the courses of instruction listed.

## BIOLOGY

## FIRST SESSION

1 *Survey of Biology* (3)

Bowman

Systematic study of the plant and animal kingdoms with emphasis upon the interdependence of living things. Review of work done in evolution, heredity, public health, and conservation. This course includes lectures, laboratory periods, and study of plant and animal life in the field and at museums and other places of biological interest. Material fee, \$3. Tues. through Fri., 1:40 to 4:30 P.M.

## SECOND SESSION

2 *Survey of Biology* (3)

Bowman

Continuation of Biology 1. Material fee, \$3. Tues. through Fri., 1:40 to 4:30 P.M.

## BOTANY

## FIRST SESSION

1 *Structure and Function of the Flowering Plant* (3)

Yocum

The typical plant as a working mechanism, with emphasis on the general biological significance of plant physiology. Material fee, \$4.50. Lecture and laboratory: Tues. through Fri., 11:10 A.M. to 1:00 P.M.

35 *Plant Growth* (3)

Yocum

The fundamental principles which influence plant growth with emphasis on their practical application. Prerequisite: Botany I or permission of the instructor. Material fee, \$4.50. Mon., Tues., Thurs. and Fri., 9:10 A.M. Laboratory: Wed., 1:40 to 3:30 P.M., and two hours to be arranged.

## SECOND SESSION

2 *Survey of the Plant Kingdom* (3)

Yocum

Study of the different kinds of plants with emphasis on the evolution of the plant kingdom; practice in identifying flowering plants. Material fee, \$4.50. Lecture and laboratory: Tues. through Fri., 11:10 A.M. to 1:00 P.M.

## FIFTEEN-WEEK TERM

1S *Structure and Function of the Flowering Plant* (3)

The typical plant as a working mechanism, with emphasis on the general biological significance of plant physiology. Material fee, \$4.50. Lecture: Mon. and Wed., 10:10 A.M. Laboratory: Mon., 1:40 to 3:30 P.M.

## BUSINESS ADMINISTRATION

## FIRST SESSION

- 51 *Introductory Accounting* (3) \_\_\_\_\_  
Principles and procedures of double-entry accounting with special reference to single proprietorships. Section A: 7:10 A.M.; section B: 6:10 P.M.
- 52x *Introductory Accounting* (3) \_\_\_\_\_  
Accounting principles applied to partnerships and corporations; the valuation problem. Prerequisite: Business Administration 51. Section A: 7:00 A.M.; section B: 7:10 P.M.
- 101 *Business Organization and Combination* (3) Owens  
Simple and interrelated forms of business enterprise and their control by government. 8:10 A.M.
- 128 *Insurance* (3) \_\_\_\_\_  
Principles of property, life, marine, and casualty insurance; emphasis is placed upon the function of insurance in the economic life of a business or individual. 6:10 P.M.
- 145 *Cost Accounting* (3) Owens  
Job order and process systems of cost findings; interrelations of the cost records and the general accounts; standard costs; distribution costs. Prerequisite: Business Administration 51-52. 7:10 A.M.
- 155 *Analysis of Financial Statements* (3) \_\_\_\_\_  
Technique of analyzing financial statements for the guidance of operating executives, directors, stockholders, and creditors; valuation of balance sheet items; determination and interpretation of ratios. Prerequisite: Business Administration 51-52. 7:10 P.M.

## SECOND SESSION

- 51x *Introductory Accounting* (3) \_\_\_\_\_  
Principles and procedures of double-entry accounting with special reference to single proprietorships. Section A: 7:10 A.M.; section B: 7:10 P.M.
- 52 *Introductory Accounting* (3) \_\_\_\_\_  
Accounting principles applied to partnerships and corporations; the valuation problem. Prerequisite: Business Administration 51. Section A: 7:10 A.M.; section B: 6:10 P.M.
- 115x *Business Finance* (3) \_\_\_\_\_  
Survey of financial policies involved in new enterprises and study of capital structures, promotion, earnings, surplus, reorganization and governmental regulation. 7:10 P.M.
- 155x *Analysis of Financial Statements* (3) Kennedy  
Technique of analyzing financial statements for the guidance of operating executives, directors, stockholders, and creditors; valuation of balance sheet items; determination and interpretation of ratios. Prerequisite: Business Administration 51-52. 7:10 A.M.



165x *Auditing* (3)

Duties and responsibilities of the auditor; principles and procedures in making audits; arrangement of working papers and the preparation of reports. Prerequisite: Business Administration 151-52 or permission of instructor. 6:10 P.M.

185x *Railroad Transportation* (3)

Kennedy

Railroad history, organization, regulations, rate-making theory and practice, accounting, securities, and consolidation. Work of Interstate Commerce Commission stressed. 8:10 A.M.

## FIFTEEN-WEEK TERM

51S *Introductory Accounting* (3)

Owens, Kennedy

Principles and procedures of double-entry accounting with special reference to single proprietorships. Tues. and Thurs., 10:10 to 11:25 A.M.

52S *Introductory Accounting* (3)

Owens, Kennedy

Accounting principles applied to partnerships and corporations; the valuation problem. Prerequisite: Business Administration 51. Mon., Wed., and Fri., 10:10 A.M.

## CHEMISTRY

## FIRST SESSION

21 *Inorganic Qualitative Analysis* (4)

Vincenz

Prerequisite: Chemistry 12. Required of all students of pharmacy and recommended for premedical students. Material fee,\* \$9. Tues. through Fri., 9:10 A.M. to 1:00 P.M.

151 *Organic Chemistry* (4)

Mackall

Chemistry of the carbon compounds. Semi-micro technique is emphasized in the laboratory. Prerequisite: Chemistry 12; however, students are strongly advised to take Chemistry 21 before entering this course. This course is the first half of a full course. The second half, Chemistry 152, must be completed before credit is allowed. Lecture (3), laboratory (1). Material fee,\* \$9. Lectures: Mon., Wed., and Fri., 9:10 and 11:10 A.M. Laboratory: Tues. and Thurs., 9:10 A.M. to 12:00 M.

297 *Research*

The Staff

Hours, credits, and fees to be arranged.

299 *Thesis* (3)

The Staff

Hours to be arranged. Material fee,\* \$12.

## SECOND SESSION

12 *Inorganic Quantitative Analysis* (4)

Vincenz

Prerequisite: Chemistry 21 or the equivalent. The principles of gravimetric and volumetric analysis. Material fee,\* \$12. Tues. through Fri., 9:10 A.M. to 1:00 P.M.

\* A breakage deposit of \$10, payable in advance is required of the student registered for one or more chemistry courses requiring a material fee.

**152 Organic Chemistry (4)**

Mackall

A continuation of Chemistry 151. Prerequisite: Chemistry 151. Lecture (3), laboratory (1). Material fee,\* \$9. Lecture: Mon., Wed., and Fri., 9:10 and 11:10 A.M. Laboratory: Tues. and Thurs., 9:10 A.M. to 12:00 M.

**298 Research**

The Staff

Hours, credits, and fees to be arranged.

**300 Thesis (3)**

The Staff

Hours to be arranged. Material fee,\* \$12.

**FIFTEEN-WEEK TERM****11S General Chemistry (4)**

Naeser, Hooper, Van Evera

For students who are beginning the study of chemistry and for those with high school chemistry who fail the qualifying examination in Chemistry 12. This course is the first half of a full course. The second half, Chemistry 12, must be completed before credit is allowed. Material fee,\* \$9. Section A: Wed. and Fri., 9:10 A.M.; section B: Wed. and Fri., 10:10 A.M. Laboratory—section K: Wed. and Fri., 10:10 A.M. to 1:00 P.M.; section L: Tues. and Thurs., 10:10 A.M. to 1:00 P.M.; section M: Wed. and Fri., 2:10 to 5:00 P.M.; section N: Tues. and Thurs., 2:10 to 5:00 P.M.

**12S General Chemistry (4)**

Naeser, Hooper, Wrenn

Prerequisite: Chemistry 11 or high school chemistry and permission of the instructor. Material fee,\* \$9. Section A: Tues. and Thurs., 9:10 A.M.; section B: Tues. and Thurs., 10:10 A.M. Laboratory—section K: Wed. and Fri., 10:10 A.M. to 1:00 P.M.; section L: Tues. and Thurs., 10:10 A.M. to 1:00 P.M.; section M: Wed. and Fri., 2:10 to 5:00 P.M.; section N: Tues. and Thurs., 2:10 to 5:00 P.M.

**155S Organic Chemistry Preparations (2 or 3)**

Wrenn

The synthesis of organic compounds and the application of the technique of organic chemistry to the preparation of pure compounds, using larger amounts and greater refinements than in Chemistry 151-52. Prerequisite: Chemistry 22 and 152. Material fee,\* \$6 a credit hour. Tues. and Thurs., 2:10 to 5:00 P.M.

**251S Advanced Organic Chemistry (3)**

Wrenn

An introduction to the literature of organic chemistry; the study of the synthesis, reactions, and properties of carbon compounds; the fundamental theories of organic chemistry. Prerequisite: Chemistry 152. Open to the senior student with the permission of the instructor. Mon., Wed., and Fri., 7:10 P.M.

**CIVIL ENGINEERING****FIFTEEN-WEEK TERM****2S Plane Surveying (3)**

Principles, methods, and instruments used in surveying; with field work. Prerequisite: Trigonometry. Surveying fee, \$6. Wed. and Fri., 12:10 P.M.; field work Sat., 9:10 A.M.

\* A breakage deposit of \$10, payable in advance is required of the student registered for one or more chemistry courses requiring a material fee.

†21-22S *Analytical Mechanics: Statics and Dynamics* Ritchey  
(2 or 3)

Composition and resolution of forces; axial stresses; centroids; friction. Kinematics of a particle; kinetics of a body in translation, rotation, and plane motion; work and energy; impulse and momentum. Prerequisite: Physics 6; prerequisite or concurrent registration: Mathematics 20. Mon., Tues., Wed., Thurs., and Fri., 5:10 P.M.

### ECONOMICS \*

#### FIRST SESSION

- 1 *Introductory Economics\** (3) Watson  
Survey of the major economic institutions and economic problems in contemporary society. 6:10 P.M.
- 2X *Introductory Economics\** (3) Acheson  
Continuation of Economics 1. 7:10 A.M.
- 101 *Economic Theory* (3) Watson  
Introduction to formal economic theory; advanced analysis of demand, supply, and price relations. 5:10 P.M.
- 102X *History of Economic Thought* (3)  
Economic doctrines since the mercantilist writers; the history of the major schools of thought; influence of changing problems on theory. 6:10 P.M.
- 103 *Advanced Economic Theory* (3) Watson  
Analysis of the theory of monopolistic competition and other recent developments in general economic theory. Prerequisite: Economics 101. 7:10 P.M.
- 121 *Money and Banking* (3) Acheson  
Money, bank credit, and prices; commercial and investment banking; banking systems; historical development of banking; government and banking; functions of money and banking. 8:10 A.M.
- 122X *Money and Banking* (3) Acheson  
Continuation of Economics 121. 9:10 A.M.

#### SECOND SESSION

- 1X *Introductory Economics\** (3) Ke  
Survey of the major economic institutions and economic problems in contemporary society. 7:10 A.M.
- 2 *Introductory Economics\** (3) Ke  
Continuation of Economics 1. 6:10 P.M.
- 101X *Economic Theory* (3) Ratzlaff  
Introduction to formal economic theory; advanced analysis of demand, supply, and price relations. 9:10 A.M.

\* Economics 1-2 is prerequisite to all other courses in economics.



- 105x *Economic Fluctuations: Business Cycles* (3) \_\_\_\_\_  
Analysis of strategic factors in economic instability and economic retardation; survey of recent business-cycle theories. 5:10 P.M.
- 108 *The National Income* (3) \_\_\_\_\_  
The measurement, composition, and determinants of the national income. 7:10 P.M.
- 125x *Monetary Problems* (3) \_\_\_\_\_  
Survey of monetary developments since the First World War. monetary policies in the 1930's, war finance, post-war monetary reconstruction. 6:10 P.M.
- 146 *Economic Security and Social Insurance* (3) Ratzlaff  
Economic and social problems of unemployment and destitution; analysis of the federal social security program; survey of the Beveridge and other plans for social security. 8:10 A.M.

## FIFTEEN-WEEK TERM

- 1S *Introductory Economics\** (3) Burns  
Survey of the major economic institutions and economic problems in contemporary society. Tues. and Thurs., 10:10 to 11:25 A.M.
- 2S *Introductory Economics\** (3) Burns  
Continuation of Economics 1. Tues. and Thurs., 11:35 A.M. to 12:50 P.M.
- 141S *Labor Economics* (3) Ratzlaff  
Labor problems; wages, hours, and working conditions; growth of labor organizations. Mon., Wed., and Fri., 10:10 A.M.
- 180S *Principles of Foreign Trade* (3) Ratzlaff  
International trade; foreign exchange; tariffs and commercial agreements. Mon., Wed., and Fri., 11:10 A.M.

## EDUCATION

## FIRST SESSION

- 109 *Learning and Teaching* (3) Hall  
Psychological bases of teaching, including adolescent growth and development; caring for individual differences; mental hygiene in the classroom. Mon., Wed., and Fri., 5:10 to 7:00 P.M.
- 247 *Vocational Education* (3) Dennis  
Major issues, problems, and trends. Mon. and Wed., 7:10 to 9:10 P.M.  
Conference hours: Mon. and Wed., 6:10 P.M.
- 271 *The American School System* (3) Fox  
Organization of public education; sources of school revenue; influences of national and state agencies; local administrative units; the chief legal controls; criteria of building administration; responsibilities of teachers. Tues. and Thurs., 7:10 to 9:10 P.M. Conference hours: Tues. and Thurs., 6:10 P.M.
- 297 *Thesis* (3) The Staff

\* Economics 1-3 is prerequisite to all other courses in economics.

## SECOND SESSION

- 156 *Secondary Education: The Junior and Senior High School* (3) Root  
Development, purpose, relation to elementary education, organization and administration, guidance, program of studies, community relationships. 6:10 P.M.
- 280 *Adult Education* (3) Bish  
Extent and organization; interests, needs, and capacities of adult learners; teaching procedures for adults, including audio-visual aids; administration of programs; social values; review of recent literature. Tues. and Thurs., 7:10 to 9:10 P.M. Conference hours: Tues. and Thurs., 6:10 P.M.
- 285x *Extra-classroom Activities* (3) Fox, Bish  
Home room functions, emphasizing orientation and guidance; student self-government, clubs, assemblies, school publications. Mon. and Wed., 7:10 to 9:10 P.M. Conference hours: Mon. and Wed., 6:10 P.M.
- 298 *Thesis* (3) The Staff

## SPECIAL SIX-WEEK SESSION

July 1 to August 9

- 206 *The Curriculum* (3) Hall  
Organized as a curriculum workshop with lectures, conferences, and group discussion. 11:30 A.M. to 12:30 P.M. Conference hours: Mon. and Wed., 10:20 A.M.
- 209 *Child Growth and Development* (3) Hall  
Nature of growth and the environmental factors that affect it, with a view to helping teachers to understand children. 9:10 to 10:10 A.M. Conference hours: Tues. and Thurs., 10:20 A.M.
- 218 *Social Foundations of Education* (3) Jarman  
Social forces that shape policies, subject-matter offerings, and limitations of the school; growth and development of present-day school practices in terms of cultural, social, economic, and political patterns. 8:00 to 9:00 A.M. Conference hours: Tues. and Thurs., 9:10 A.M.
- 227 *Trends in Elementary Education* (3) Barnett  
A survey of current practices descriptive of the emerging elementary school. 8:00 to 9:00 A.M. Conference hours to be arranged.
- 231 *Secondary School Classroom Procedures* (3) Bish  
Survey of current classroom practices with particular attention to methods and techniques used by the Armed Forces; reviews of recent literature. 9:10 to 10:10 A.M. Conference hours: Mon. and Wed., 10:20 A.M.

257 *Secondary Education: The Junior High School* (3)

Fox, Bish

Purposes, objectives, and practices of good schools; organization and management; implementation of curriculum changes; public relations. Primarily for principals. 11:30 A.M. to 12:30 P.M. Conference hours: Tues. and Thurs., 10:20 to 11:20 A.M.

272 *The Teacher and School Supervision* (3)

Fox

Aims and objectives of supervision in relation to postwar demands, personnel problems, supervisory techniques, evaluation of school efficiency. 10:20 to 11:20 A.M. Conference hours: Tues. and Thurs., 9:20 A.M.

297-98 *Thesis* (3-3)

The Staff

CLOSELY RELATED COURSES IN OTHER DEPARTMENTS

FIRST SESSION

Psychology 125 *Child Psychology*

Psychology 131 *Psychological Tests*

SECOND SESSION

Psychology 230 *Seminar: Educational and Vocational Guidance*

Consultants and Guest Lecturers to be named later. (To assist with Education 209, 227, 257).

ELECTRICAL ENGINEERING

FIFTEEN-WEEK TERM

†9-108 *Elements of Electrical Engineering* (3-3) Ames, Akers  
Electrical Engineering 9: magnetic and electric circuits, and direct-current instruments and machines; Electrical Engineering 10: alternating-current circuits, instruments, and machines. Prerequisite: Physics 7. Prerequisite or concurrent registration: Mathematics 20. Mon., Tues., Wed., Thurs., and Fri., 7:10 to 8:25 P.M.

ENGLISH

FIRST SESSION

1 *Freshman English* (3)

The Staff

Grammatical review, exercises in composition, study, and criticism of prose essays. Section A: 8:10 A.M.; section B: 10:10 A.M.; section C: 6:10 P.M.; section D: 7:10 P.M.



- 2x *Freshman English* (3) The Staff  
Continuation of English I. Section A: 9:10 A.M.; section B: 11:10 A.M.; section C: 6:10 P.M.; section D: 7:10 P.M.
- 51 *Introduction to English Literature* (3) Smith  
A historical survey. 9:10 A.M.
- 71 *Introduction to American Literature* (3) Cole  
A historical survey from the beginnings to the Civil War. 6:10 P.M.
- 91 *Introduction to European Literature* (3) Smith, Venezky  
Consideration of various types. Section A: 8:10 A.M.; section B: 7:10 P.M.
- 129 *Elizabethan Nondramatic Literature* (3) Tupper  
Nondramatic literature from 1485 to 1603. Prerequisite: English 51-52, 71-72, or 91-92. 6:10 P.M.
- 135 *Shakespeare* (3) Tupper  
7:10 P.M.
- 151 *The Romantic Movement* (3) Smith  
10:10 A.M.
- 176x *The American Novel* (3) Cole  
Chronological development of fiction from the beginnings through the 1920's. 7:10 P.M.

## SECOND SESSION

- 1x *Freshman English* (3) The Staff  
Grammatical review, exercises in composition, study, and criticism of prose essays. Section A: 9:10 A.M.; section B: 11:10 A.M.; section C: 6:10 P.M.; section D: 7:10 P.M.
- 2 *Freshman English* (3) The Staff  
Continuation of English I. Section A: 8:10 A.M.; section B: 10:10 A.M.; section C: 6:10 P.M.; section D: 7:10 P.M.
- 10 *Sophomore Composition* (3) Howard  
A study of the modern short story, with exercises in narrative writing. Prerequisite: English 1-2. 9:10 A.M.
- 52 *Introduction to English Literature* (3) Linton  
A historical survey. 9:10 A.M.
- 72 *Introduction to American Literature* (3) Coberly  
A historical survey from the Civil War to the present day. 6:10 P.M.
- 92 *Introduction to European Literature* (3) Shepard, Linton  
A consideration of various types. Section A: 8:10 A.M.; section B: 7:10 P.M.

- 136 *Shakespeare* (3) Stone  
7:10 P.M.
- 152 *The Romantic Movement* (3) Linton  
10:10 A.M.
- 162 *Victorian Poetry* (3) Shepard  
Major English poets from 1830 to 1890. 6:10 P.M.

FIFTEEN-WEEK TERM

- 1S *Freshman English* (3) Greaves  
Grammatical review, exercises in composition, study, and criticism of prose essays. Mon., Wed., and Fri., 9:10 A.M.
- 2S *Freshman English* (3) Greaves  
Continuation of English 1. Mon., Wed., and Fri., 8:10 A.M.
- 71S *Introduction to American Literature* (3) Bolwell  
A historical survey from the beginnings to the Civil War. Mon., Wed., and Fri., 10:10 A.M.
- 72S *Introduction to American Literature* (3) Bolwell  
A historical survey from the Civil War to the present day. Mon., Wed., and Fri., 11:10 A.M.
- 175S *The American Drama* (3) Bolwell  
Readings and analysis of significant plays from the beginnings to the present day. Mon., Wed., and Fri., 12:10 P.M.

GEOGRAPHY

FIRST SESSION

- 2x *Elements of Geography* (3) Quam  
General survey of earth regions, economic occupation of earth, and utilization of its resources. 10:10 A.M. (Room: D-200)
- 108x *Southwestern Asia and Soviet Union* (3) Quam  
Physical, political, economic, and regional survey of USSR and the Near East. 11:10 A.M.

SECOND SESSION

- 122 *Political Geography* (3) Koenig  
Study of the spatial structure, areal growth, and influence of states. The interplay of geography and politics to the extent that these two determine the policy of administrations. 8:10 A.M.
- 275x *Seminar: Geographic Factors in Foreign Policy* (3) \_\_\_\_\_  
A study of resources, people, and geo-political problems of selected nations or empires. Mon., Wed., and Fri., 8:10 P.M.

## FIFTEEN-WEEK TERM

111-12S *Economic Geography* (3-3)

Description and interpretation of the economic utilization of earth regions; location of natural resources, staple crops, and industry, and the trade relations resulting therefrom. 6:10 P.M.

## GERMAN

## FIRST SESSION

- 1 *First-year German* (3) Legner, Cokenias  
Essentials of grammar and simple prose. Section A: 9:10 A.M.; section B: 6:10 P.M.
- 2X *First-year German* (3) Legner  
Continuation of German 1. Essentials of grammar and translation of simple prose. 8:10 A.M.
- 5 *Second-year German* (3) Legner  
Composition, conversation, readings in prose and poetry. 7:10 P.M.

## SECOND SESSION

- 2 *First-year German* (3) Rogers, Cokenias  
Continuation of German 1. Essentials of grammar and translation of simple prose. Section A: 9:10 A.M.; section B: 6:10 P.M.
- 5X *Second-year German* (3) Rogers  
Composition and conversation, readings in prose and poetry. 8:10 A.M.
- 6 *Second-year German* (3) Rogers  
Continuation of German 5. Composition and conversation, readings in prose and poetry. 7:10 P.M.

## HISTORY

## FIRST SESSION

- 39 *The Development of European Civilization* (3) Kayser  
The political, social, economic, and cultural history of the Old World to 1500. 7:10 A.M.
- 71 *The Development of American Civilization* (3) Gray, Campbell  
The political, social, economic, and cultural forces of the United States in their world setting to 1865. Section A: 9:10 A.M.; section B: 7:10 P.M.
- 146X *History of Russia* (3)  
Main currents in economic, social, cultural, and political development and world relations from the emergence of the Russian nation to the present. 7:10 P.M.



149 *European Diplomatic History* (3)

Diplomatic relations of the European States from the Congress of Vienna to the present. 8:10 A.M.

174x *Economic History of the United States* (3)

Gray

Main trends in the development of American agriculture, industry, and trade since 1607 with emphasis on tendencies and problems since the Civil War. 6:10 P.M.

181 *Diplomatic History of the United States*

Purcell

(3)

Tendencies toward isolation, expansion, and collectivism; disputes with foreign countries and their settlement; and the activities of the American secretaries of state and diplomatic agents to the Civil War. 7:10 P.M.

SECOND SESSION

40 *The Development of European Civilization* (3)

Kayser

The economic, social, political, and cultural history of the Old World from 1500 to the present. 7:10 A.M.

72 *The Development of American Civilization* (3)

Campbell

The economic, social, political, and cultural forces of the United States in their world setting from 1865 to the present. 7:10 P.M.

162 *Hispanic American Civilization* (3)

Wilgus

Development of political, economic, social, and institutional affairs of the Ibero-American states in the period since independence. 6:10 P.M.

163x *Pan American Problems* (3)

Wilgus

10:10 A.M.

182 *Diplomatic History of the United States*

Purcell

(3)

Tendencies toward isolation, expansion, and collectivism; disputes with foreign countries and their settlement; and the activities of the American secretaries of state and diplomatic agents since the Civil War. 7:10 P.M.

FIFTEEN-WEEK TERM

39S *The Development of European Civilization* (3)

Kayser

The political, social, economic, and cultural history of the Old World to 1500. Tues. and Thurs., 10:10 to 11:25 A.M.

40S *The Development of European Civilization* (3)

Kayser

The political, social, economic, and cultural history of the Old World since 1500. Mon., Wed., and Fri., 10:10 A.M.

## LAW

## FIRST SESSION

June 3-July 27

Complete information concerning the description of courses and hours of instruction may be obtained from the Office of the Dean of the Law School.

111	<i>Contracts</i> (4)	Spaulding
201	<i>Damages</i> (1)	
245	<i>Negotiable Instruments</i> (4)	Oppenheim
261	<i>Security Transactions</i> (4)	
351	<i>Public Utilities</i> (4)	Collier
353	<i>Domestic Relations</i> (1)	

## SECOND SESSION

July 29-September 21

134	<i>Property I</i> (4)	Benson
202	<i>Damages</i> (1)	
252	<i>Restitution</i> (4)	
316	<i>Conflict of Laws</i> (4)	Van Vleck
354	<i>Domestic Relations</i> (1)	

## MATHEMATICS

## FIRST SESSION

3	<i>College Algebra</i> (3)	Mears
Prerequisite: one year each of high school algebra and high school geometry. 7:10 P.M.		
12X	<i>Analytic Geometry</i> (3)	Taylor, Mears
Prerequisite: Mathematics 3 and 6, or two years of high school algebra, one year of high school geometry, and one-half year of high school trigonometry. Section A: 9:10 A.M.; section B: 5:10 P.M.		
20X	<i>Integral Calculus</i> (3)	Mears
Prerequisite: Mathematics 19. 6:10 P.M.		

## SECOND SESSION

3X	<i>College Algebra</i> (3)	
Prerequisite: one year each of high school algebra and high school geometry. 9:10 A.M.		
6	<i>Plane Trigonometry</i> (3)	Johnston
Prerequisite: two years of high school algebra and one year of high school geometry, or Mathematics 3 (or concurrent registration therefor). 7:10 P.M.		

- 19x *Differential Calculus* (3) Taylor, Johnston  
Prerequisite: Mathematics 12. Section A: 9:10 A.M.; section B: 5:10 P.M.
- 132 *Differential Equations* (3) Johnston  
Prerequisite: Mathematics 20. 6:10 P.M.

## FIFTEEN-WEEK TERM

- 3S *College Algebra* (3) \_\_\_\_\_  
Prerequisite: one year each of high school algebra and high school geometry. Mon., Wed., and Fri., 10:10 A.M.
- 6S *Plane Trigonometry* (3) Williams, \_\_\_\_\_  
Prerequisite: two years of high school algebra and one year of high school geometry, or Mathematics 3 (or concurrent registration therefor). Section A: Mon., Wed., and Fri., 10:10 A.M.; section B: Mon., Wed., and Fri., 11:10 A.M.; section C: Mon., Wed., and Fri., 7:10 P.M.
- 12S *Analytic Geometry* (3) Williams, \_\_\_\_\_  
Prerequisite: Mathematics 3 and 6, or two years of high school algebra, one year of high school geometry, and one-half year of high school trigonometry. Section A: Tues. and Thurs., 10:10 to 11:25 A.M.; section B: Mon., Wed., and Fri., 8:10 P.M.
- 19S *Differential Calculus* (3) Taylor, Williams  
Prerequisite: Mathematics 12. Section A: Mon., Wed., and Fri., 11:10 A.M.; section B: Mon., Wed., and Fri., 6:10 P.M.
- 20S *Integral Calculus* (3) Taylor  
Prerequisite: Mathematics 19. Tues. and Thurs., 10:10 to 11:25 A.M.

## MECHANICAL ENGINEERING

## FIFTEEN-WEEK TERM

- 3S *Mechanical Drawing* (2) Ritchey, Trumbull  
Drafting-room fee, \$3. Section A: Mon. and Fri., 1:40 to 4:30 P.M.; section B: Tues. and Thurs., 1:40 to 4:30 P.M.
- 4S *Descriptive Geometry* (2) Ritchey  
Drafting-room fee, \$3. Mon. and Fri., 1:40 to 4:30 P.M.
- 7S *Machine Drawing* (2) Trumbull  
Prerequisite: Mechanical Engineering 3 and 4. Drafting-room fee, \$3. Mon. and Fri., 1:40 to 4:30 P.M.
- 8S *Mechanism Drawing* (2) Trumbull  
Prerequisite: Mechanical Engineering 3, 4, and 13. Prerequisite or concurrent registration: Mechanical Engineering 14. Drafting-room fee, \$3. Mon. and Fri., 1:40 to 4:30 P.M.
- †13-14S *Mechanism* (2-2) Cruickshanks, Trumbull  
Prerequisite: Mathematics 12. Prerequisite or concurrent registration: Mathematics 19. Mon., Tues., Thurs., and Fri., 12:10 P.M.



## PHILOSOPHY

## FIRST SESSION

- 1 *Introduction to Philosophy* (3) Gau  
An introduction to the problems of the field of philosophy and their relevance to the vital issues of the present day. 6:10 P.M.
- 2X *Introduction to Philosophy* (3) Gau  
Continuation of Philosophy 1. May be taken concurrently with 1 to complete year's course. 8:10 P.M.
- 121 *Logic and Scientific Method* (3) Gau  
A study of deductive and inductive logic and their application of scientific method and to the social sciences. 7:10 P.M.

## SECOND SESSION

- 1X *Introduction to Philosophy* (3) \_\_\_\_\_  
An introduction to the problems of the field of philosophy and their relevance to the vital issues of the present day. 10:10 A.M.
- 2 *Introduction to Philosophy* (3) \_\_\_\_\_  
Continuation of Philosophy 1. 11:10 A.M.
- 132 *Ethics* (3) \_\_\_\_\_  
A study of the problems of conduct and human relations as they affect the present conditions. 7:10 P.M.

## PHYSICS

## FIFTEEN-WEEK TERM

- 5S *General Physics* (3) French and Sta  
Introduction to the scientific method as used in the study of energy and forces; physical properties of solids, liquids, and gases; phenomena of heat and light. Prerequisite: high school algebra and plane geometry. Material fee, \$6. (Each student must register for Lecture A or B, and one of sections J to W. Registration must be approved by the Physics Department.) Lecture—section A: Mon., 11:10 A.M.; section B: Mon., 12:10 P.M. Recitation and laboratory—section J: Wed., 11:10 A.M., and Mon., 2:40 to 5:00 P.M.; section K: Fri., 11:10 A.M., and Tues., 2:40 to 5:00 P.M.; section L: Wed., 1:40 to 5:00 P.M.; section M: Thurs., 1:40 to 5:00 P.M.; section N: Fri., 1:40 to 5:00 P.M.; section W: Sat., 8:10 to 11:30 A.M.
- 6S *General Physics* (3) Cheney and Sta  
Mechanics, wave-motion, sound, and the theory of optical instruments. Prerequisite: Physics 5, high school algebra, plane geometry. Material fee, \$6. (Each student must register for Lecture A or B, and one of sections J to W. Registration must be approved by the Physics Department.) Lecture—section A: Tues., 11:30 A.M.; section B: Tues., 6:10 P.M. Recitation and laboratory—section J: Mon., 1:40 to 5:00 P.M.; section K: Thurs., 11:30 A.M., and Tues., 2:40 to 5:00 P.M.; section L: Wed., 1:40 to 5:00 P.M.; section M: Thurs., 1:40 to 5:00 P.M.; section N: Fri., 1:40 to 5:00 P.M.; section T: Thurs., 6:10 to 9:30 P.M.; section W: Sat., 8:10 to 11:30 A.M.

**7S General Physics (3)**

Cheney and Staff

Electricity; magnetism; the principles underlying the uses of electric power in everyday life. Prerequisite: Physics 5, high school algebra, plane geometry. Material fee, \$6. (Each student must register for Lecture A or B, and one of Sections J to R. Registration must be approved by the Physics Department.) Lecture—section A: Thurs., 11:30 A.M.; section B: Thurs., 6:10 P.M. Recitation and laboratory—section J: Mon., 1:40 to 5:00 P.M.; section K: Tues., 1:40 to 5:00 P.M.; section L: Wed., 1:40 to 5:00 P.M.; section N: Fri., 1:40 to 5:00 P.M.; section R: Tues., 6:10 to 9:30 P.M.

**8S General Physics (2)**

Brown

The experimental evidence concerning the nature of light, electricity, and matter; practical developments of modern physics, such as X-ray apparatus, electron tubes, and radio. Prerequisite: Physics 6 and 7. Section A: Wed. and Fri., 11:10 A.M.; section B: Wed. and Fri., 6:10 P.M.

**55S Physical Measurements (2)**

Cheney

Theory and use of the methods of precise measurement in the several fields of physics. Prerequisite: Physics 6 and 7. Prerequisite or concurrent registration: Mathematics 19. Material fee, \$6. Registration must be approved by the Physics Department. Sat., 9:10 A.M. to 12 M.

**161S Nuclear Physics (3)**

Gamow

Radioactivity, nuclear transformations, new particles; astrophysical applications. Prerequisite: Physics 113-14. Tues. and Thurs., 7:35 to 8:50 P.M.

**222S Quantum Mechanics (3)**

Critchfield

Applications of quantum mechanical theory to special problems. A continuation of 221x, which is prerequisite. Tues. and Thurs., 6:10 to 7:25 P.M.

**232S Advanced Electronics (3)**

Brown

Theory and design of electron tubes and electronic circuits. Lectures and problems. Prerequisite: Physics 132. Wed. and Fri., 7:10 to 8:25 P.M.

**POLITICAL SCIENCE****FIRST SESSION****9 Government of the United States (3)**

West, \_\_\_\_\_

Fundamental principles of political science and the organization of the Federal Government. Section A: 8:10 A.M.; section B: 6:10 P.M.

**10x Government of the United States (3)**

West, \_\_\_\_\_

The organization of state and local governments; relationships with the Federal Government; the functions of the federal, state, and local governments in the United States. Section A: 9:10 A.M.; section B: 7:10 P.M.

- 117 *Political Theory* (3) We  
7:10 A.M.
- 171 *International Politics and Organization* (3) Johnstone  
5:10 P.M.
- 281 *Seminar: International Law and Relations* (3) Johnstone  
Mon. and Wed., 8:10 P.M.

## SECOND SESSION

- 10 *Government of the United States* (3) Tillema  
The organization of state and local governments; relationships with the Federal Government; the functions of the federal, state, and local governments in the United States. Section A: 8:10 A.M.; section B: 6:10 P.M.
- 127X *Commercial Law: Contracts, Agency, and Bailments* (3) Tillema  
9:10 A.M.
- 151X *Public Administration* (3) Tillema  
7:10 P.M.

## FIFTEEN-WEEK TERM

- 128S *Commercial Law: Negotiable Instruments, Property, Sales, Mortgages* (3) Tillema  
Mon., Wed., and Fri., 11:10 A.M.

## PSYCHOLOGY

## FIRST SESSION

- 1 *General Psychology* (3) Hunt, Fehre  
The fundamental principles underlying human behavior. Section A: 8:10 A.M.; section B: 7:10 P.M.
- 2X *Applied Psychology* (3) Omwa  
The application of psychology in business, industry, medicine, law, guidance, education, and social problems. 11:10 A.M.
- 116X *Abnormal Psychology* (3) Hunt, Omwa  
The causes, diagnosis, treatment, and prevention of the various types of maladjustments and mental disorders. Section A: 9:10 A.M.; section B: 7:10 P.M.
- 125 *Child Psychology* (3) Omwa  
A genetic approach to the study of the child. 10:10 A.M.



- 131 *Psychological Tests* (3) Fehrer  
A survey of psychological tests and their more common uses in personnel, clinical, and educational organizations. Material fee, \$2.25. 6:10 P.M.
- 191 *Experimental Psychology* (3) Fehrer  
The application of experimental methods to various psychological problems. Material fee, \$6. Mon., Wed., and Fri., 2:10 to 4:30 P.M.
- 197 *Field Work in Psychology* (3) The Staff  
Supervised field work in agencies providing psychological service. Admission by permission of the Executive Officer of the Department. Hours to be arranged.
- 203 *Research in Psychology* The Staff  
Hours and credits to be arranged.
- 217 *Seminar: Clinical Psychology* (3) Ives  
Mon. and Wed., 7:10 to 9:10 P.M.
- 227 *Seminar: Techniques of Counseling* (3) Davis  
A detailed study of counseling techniques, and the types of counseling problems likely to confront teachers, employee counselors, vocational counselors and veterans' advisers. Tues. and Thurs., 7:10 to 9:10 P.M.
- 299 *Thesis* (3) The Staff

SECOND SESSION

- 1x *General Psychology* (3) Cofer  
The fundamental principles underlying human behavior. 9:10 A.M.
- 2 *Applied Psychology* (3) Cofer, ———  
The applications of psychology in business, industry, medicine, law, guidance, education, and social problems. Section A: 8:10 A.M.; section B: 7:10 P.M.
- 143x *Personnel Psychology* (3) Bigger  
Covers problems of personnel recruitment and selection. Mon., Wed., and Fri., 7:10 to 8:35 P.M.
- 151x *Social Psychology* (3) ———  
The social foundations of attitudes and behavior. Individual adjustment to group situations, such as the family, school, and occupation. The psychological bases of race prejudice, nationalism, and war. 6:10 P.M.
- 172 *Psychology of Personality* (3) Cofer  
Contemporary approaches to the study of personality. 11:10 A.M.

- 198 *Field Work in Psychology* (3) The Staff  
Supervised field work in agencies providing psychological service.  
Admission by permission of the Executive Officer of the Department.  
Hours to be arranged.
- 204 *Research in Psychology* The Staff  
Hours and credits to be arranged.
- 230 *Seminar: Techniques of Guidance* (3) Brewster  
A survey of current trends and developments in guidance. Tues. and  
Thurs., 7:10 to 9:10 P.M.
- 300 *Thesis* (3) The Staff

## FIFTEEN-WEEK TERM

- 15 *General Psychology* (3) Hunt, —  
The fundamental principles underlying human behavior. Tues. and  
Thurs., 11:35 A.M. to 12:50 P.M.

## ROMANCE LANGUAGES

## FIRST SESSION

## French

- 1 *First-year French* (3) Caskie  
Grammar, translation, pronunciation. Section A: 7:10 A.M.; section  
B: 6:10 P.M.
- 2x *First-year French* (3) Caskie  
Continuation of French 1. Section A: 8:10 A.M.; section B: 7:10 P.M.
- 5 *Second-year French* (3)  
Reading of modern French, grammar review, oral practice. Section A:  
9:10 A.M.; section B: 6:10 P.M.
- 109 *Conversation and Composition* (3) Caskie  
7:10 P.M.

## Spanish\*

- 1 *First-year Spanish* (3) Doyle, —  
Grammar, translation, pronunciation. Section A: 7:10 A.M.; section  
B: 6:10 P.M.
- 2x *First-year Spanish* (3) Downing  
Grammar, translation, pronunciation. Section A: 8:10 A.M.; section  
B: 7:10 P.M.
- 5 *Second-year Spanish* (3) Doyle, —  
Reading of modern Spanish, grammar review, oral practice. Section  
A: 9:10 A.M.; section B: 6:10 P.M.

\* Spanish 5-6 or the equivalent is prerequisite for all second-group courses in Spanish

- 109 *Conversation and Composition* (3)  
7:10 P.M.

- 129 *The Spanish American Novel* (3) Vázquez  
Development of the novel in Spanish America. Lectures, collateral reading, and class analysis of texts. 6:10 P.M.

SECOND SESSION

French

- 2 *First-year French* (3) Deibert  
Continuation of French 1. Section A: 7:10 A.M.; section B: 6:10 P.M.
- 5x *Second-year French* (3)  
Reading of modern French, grammar review, oral practice. Section A: 8:10 A.M.; section B: 7:10 P.M.
- 6 *Second-year French* (3) Deibert  
Continuation of French 5. Section A: 9:10 A.M.; section B: 6:10 P.M.
- 110 *Conversation and Composition* (3)  
7:10 P.M.

Spanish

- 2 *First-year Spanish* (3) Protzman, Alonso  
Continuation of Spanish 1. Section A: 7:10 A.M.; section B: 6:10 P.M.
- 5x *Second-year Spanish* (3)  
Reading of modern Spanish, grammar review, oral practice. Section A: 8:10 A.M.; section B: 7:10 P.M.
- 6 *Second-year Spanish* (3) Protzman, Alonso  
Continuation of Spanish 5. Section A: 9:10 A.M.; section B: 6:10 P.M.
- 110 *Conversation and Composition* (3) Alonso  
Continuation of Spanish 109. 7:10 P.M.
- 130 *The Spanish American Novel* (3) Vázquez  
Continuation of Spanish 129. 6:10 P.M.

FIFTEEN-WEEK TERM

French

- 1S *First-year French* (3)  
Grammar, translation, pronunciation. Section A: Mon., Wed., and Fri., 10:10 A.M.; section B: Tues. and Thurs., 10:10 to 11:25 A.M.
- 2S *First-year French* (3)  
Continuation of French 1. Section A: Mon., Wed., and Fri., 11:10 A.M.; section B: Tues. and Thurs., 11:35 A.M. to 12:50 P.M.
- 5S *Second-year French* (3)  
Reading of modern French, grammar review, oral practice. Section A: Mon., Wed., and Fri., 10:10 A.M.; section B: Tues. and Thurs., 10:10 to 11:25 A.M.



- 109S *Conversation and Composition* (3)  
Tues. and Thurs., 11:35 A.M. to 12:50 P.M.

- 127S *French Literature of the Twentieth Century* (3)  
Mon., Wed., and Fri., 10:10 A.M.

Keating

## Spanish

- 1S *First-year Spanish* (3)

Grammar, translation, pronunciation. Section A: Mon., Wed., and Fri., 10:10 A.M.; section B: Tues. and Thurs., 10:10 to 11:25 A.M.

- 2S *First-year Spanish* (3)

Continuation of Spanish 1. Section A: Mon., Wed., and Fri., 11:25 A.M.; section B: Tues. and Thurs., 11:35 A.M. to 12:50 P.M.

- 5S *Second-year Spanish* (3)

Reading of modern Spanish, grammar review, oral practice. Section A: Mon., Wed., and Fri., 10:10 A.M.; section B: Tues. and Thurs., 10:10 to 11:25 A.M.

- 109S *Conversation and Composition* (3)  
Mon., Wed., and Fri., 11:10 A.M.

## SECRETARIAL STUDIES

## FIRST SESSION

- 12X *Intermediate Shorthand and Transcription* (4) Veol  
Review of the principles of Gregg Shorthand. Minimum dictation speed of 80 words a minute attained. Prerequisite: Secretarial Studies 11 or the equivalent; ability to take dictation at 60 words a minute. Laboratory fee, \$1.50. 5:45 to 7:00 P.M.

## SPEECH

## FIRST SESSION

- 1 *Principles of Effective Speaking* (3) Benne  
Short informative speeches; delivery practice, pronunciation, enunciation, and diction; impromptu speaking. Recording fee, \$1.50. Section A: 8:10 A.M.; section B: 9:10 A.M.; section C: 6:10 P.M.; section D: 7:10 P.M.
- 2X *Persuasive and Entertaining Speaking* (3) Benne  
Special emphasis is placed on persuasive and entertaining speeches. This course is a continuation of Speech 1, which is prerequisite. Recording fee, \$1.50. 10:10 A.M.
- 11 *Training of the Speaking Voice* (3)  
Developing ease, naturalness, and clarity in the speaking voice. Analysis of individual voices through recordings. Recording fee, \$1.50. Section A: 8:10 A.M.; section B: 6:10 P.M.

**71 Speech Clinic**

Individual and group lessons for problems of voice and articulation: lisping, dialects, cleft palate speech. Hours to be arranged.

**102x Oral Interpretation of Literature (3)**

Reading to others: theory and practice in the problems of communicating meanings and emotion. Recording fee, \$1.50. 8:10 A.M.

**109 Radio Speaking (3)**

Radio speeches, interviews, and discussions; news commentating; news reporting; plays. Prerequisite: three credit hours of speech. Recording fee, \$3. 7:10 P.M.

SECOND SESSION

**1x Principles of Effective Speaking (3)**

Short informative speeches; delivery practice; pronunciation, enunciation, and diction; impromptu speaking. Section A: 8:10 A.M.; section B: 9:10 A.M.; section C: 6:10 P.M.; section D: 7:10 P.M.

**II Persuasive and Entertaining Speaking (3)**

Special emphasis is placed on persuasive and entertaining speeches. This course is a continuation of Speech I, which is prerequisite. Recording fee, \$1.50. 10:10 A.M.

**11x Training of the Speaking Voice (3)**

Developing ease, naturalness, and clarity in the speaking voice. Analysis of individual voices through recordings. Recording fee, \$1.50. Section A: 8:10 A.M.; section B: 6:10 P.M.

**72 Speech Clinic**

Individual and group lessons for problems of voice and articulation: lisping, dialects, cleft palate speech. Hours to be arranged.

**102 Oral Interpretation of Literature (3)**

Reading to others: theory and practice in the problems of communicating meanings and emotion. Recording fee, \$1.50. 6:10 P.M.

**109x Radio Speaking (3)**

Radio speeches, interviews, and discussions; news commentating; news reporting; plays. Prerequisite: three credit hours of speech. Recording fee, \$3. 7:10 P.M.

STATISTICS

FIRST SESSION

**51 General Statistics (elementary) (3)**

Collection of data, classification and tabulation, averages, construction and use of index numbers and quotients, dispersion, analysis of frequency distribution, time series, correlation, and graphic presentation. Prerequisite: one entrance unit in algebra. Laboratory fee, \$5. Lecture—6:10 P.M.; laboratory—Mon. and Wed., 8:00 to 9:15 P.M.

52X *Mathematics of Finance* (3)

Weida

Interest and discount, annuities, valuation of stocks and bonds, sinking funds, amortization, valuation of depletable assets, depreciation, building and loan associations. Prerequisite: one entrance unit in algebra. 9:10 A.M.

†115 *Principles of Statistical Methods* (3)

Weida

This course emphasizes the meaning, uses, and application of: variables and attributes, measurement and enumeration, averages and dispersion, frequency distributions and their characteristics, errors of measurement and their control, index numbers, trends, cyclical relatives, purposive and random sampling in theory and practice, correlation in theory, practice, and applications. Prerequisite: one entrance unit in algebra. Laboratory fee, \$5. This is the first half of a 6 credit course. Except by special arrangement with the instructor, the second half, Statistics 116, must be completed before credit is allowed. Lecture—7:10 P.M.; laboratory—Tues. and Thurs. 8:00 to 9:15 P.M.

## SECOND SESSION

51X *General Statistics* (elementary) (3)

Morrow

Collection of data, classification and tabulation, averages, construction and use of index numbers and quotients, dispersion, analysis of frequency distribution, time series, correlation, and graphic presentation. Prerequisite: one entrance unit in algebra. Laboratory fee, \$5. Lecture—9:10 A.M.; laboratory—Mon. and Wed., 3:20 to 4:35 P.M.

52 *Mathematics of Finance* (3)

Interest and discount, annuities, valuation of stocks and bonds, sinking funds, amortization, valuation of depletable assets, depreciation, building and loan associations. Prerequisite: one entrance unit in algebra. 6:10 P.M.

16 *Principles of Statistical Method* (3)

Morrow

Continuation of Statistics 115. Prerequisite: Statistics 115. Laboratory fee, \$5. Lecture—7:10 P.M.; laboratory—Tues. and Thurs. 8:00 to 9:15 P.M.

## FIFTEEN-WEEK TERM

51S *General Statistics* (elementary) (3)

Weida, Morrow

Collection of data, classification and tabulation, averages, construction and use of index numbers and quotients, dispersion, analysis of frequency distribution, time series, correlation, and graphic presentation. Prerequisite: one entrance unit in algebra. Laboratory fee, \$5. Lecture—Tues. and Thurs., 11:35 A.M. to 12:50 P.M.; laboratory—Tues. and Thurs., 3:20 to 4:35 P.M.

52S *Mathematics of Finance* (3)

Weida, Morrow

Interest and discount, annuities, valuation of stocks and bonds, sinking funds, amortization, valuation of depletable assets, depreciation, building and loan associations. Prerequisite: one entrance unit in algebra. Tues. and Thurs., 10:10 to 11:25 A.M.



# ZOOLOGY

## FIRST SESSION

- 1 Introduction to Zoology (4)** Mortensen  
An introduction to the study of the structure, functions, and relation of animals, and of the fundamental biological principles involved. Material fee, \$4.50. Section A: Mon. through Thurs., 1:40 to 4:30 P.M.; section B: Mon. through Thurs., 7:10 to 10:00 P.M.
- 141 Comparative Vertebrate Anatomy (3)** Hansen  
Lectures on the organ systems of the vertebrates; laboratory dissections of types. Prerequisite: Zoology 2. Material fee, \$6. Mon. and Wed., 1:40 to 4:30 P.M. and Tues. and Thurs., 1:40 to 3:30 P.M.
- 144x Introduction to Vertebrate Embryology (3)** Hansen  
The origin and early development of the individual and the formation of organ systems. Emphasis is placed on the frog, chicken, and pig, with reference to the human embryo. Prerequisite: Zoology 2 and 141 or 142. Material fee, \$6. Mon. and Wed., 7:10 to 9:00 P.M., and Tues. and Thurs., 7:10 to 10:00 P.M.
- 253 Research (3)** The Staff  
Investigation of special problems. Hours to be arranged.
- 299 Thesis (3)** The Staff

## SECOND SESSION

- 2 Introduction to Zoology (4)** Young  
Continuation of Zoology 1. Material fee, \$4.50. Section A: Mon. through Thurs., 1:40 to 4:30 P.M.; section B: Mon. through Thurs., 7:10 to 10:00 P.M.
- 142 Comparative Vertebrate Anatomy (3)**  
Continuation of Zoology 141. Prerequisite: Zoology 2. Material fee, \$6. Mon. and Wed., 1:40 to 4:30 P.M., and Tues. and Thurs., 1:40 to 3:30 P.M.
- 254 Research (3)** The Staff  
Investigation of special problems. Hours to be arranged.
- 300 Thesis (3)** The Staff



## SCHEDULE OF COURSES



**SCHEDULE OF COURSES •**  
**NON-ACCELERATED FIFTEEN-WEEK TERM**

June 3—September 13

**MORNING CLASSES**

8:10	9:10	10:10	11:10
Eng 2S (MWF) Phys 5SW recitation and lab (S to 11:30) Phys 6SW recitation and lab (S to 11:30)	Chem 11SA (WF) Chem 12SA (TTh) CE 2S field (S) Eng 1S (MWF) Phys 55S (S to 12)	Bot 1S (MW) Bus Adm 51S (TTh to 11:25) Bus Adm 52S (MWF) Chem 11SB (WF) Chem 11SK lab (WF to 1) Chem 11SL lab (TTh to 1) Chem 12SB (TTh) Chem 12SK lab (WF to 1) Chem 12SL lab (TTh to 1) Econ 1S (TTh to 11:25) Econ 141S (MWF) Eng 71S (MWF) Fr 1SA (MWF) Fr 1SB (TTh to 11:25) Fr 5SA (MWF) Fr 5SB (TTh to 11:25) Fr 127S (MWF) Hist 39S (TTh to 11:25) Hist 40S (MWF) Math 3S (MWF) Math 6SA (MWF) Math 12SA (TTh to 11:25) Math 20S (TTh to 11:25) Span 1SA (MWF) Span 1SB (TTh to 11:25) Span 5SA (MWF) Span 5SB (TTh to 11:25)	Econ 2S (TTh 11:35 to 12:50) Econ 180S (MWF) Eng 72S (MWF) Fr 2SA (MWF) Fr 2SB (TTh 11:35 to 12:50) Fr 199S (TTh 11:35 to 12:50) Math 6SB (MWF) Math 19SA (MWF) Phys 5SA (M) Phys 5SL recitation (W) Phys 5SK recitation (F) Phys 6SA (T 11:35) Phys 6SK recitation (Th 11:30) Phys 7SA (Th 11:30) Phys 8SA (WF) Pol Sc 128S (MWF) Psych 1S (TTh 11:35 to 12:50) Span 2SA (MWF) Span 2SB (TTh 11:35 to 12:50) Span 199S (MWF) Stat 51S (TTh 11:35 to 12:50)

12:10	1:40	2:10	3:20
CE 2S (WF) Eng 175S (MWF) ME 12-14S (MTWThF) Phys 5SB (M)	Bot 1S lab (M to 3:30) ME 3SA (MF to 4:30) ME 3SB (TTh to 4:30) ME 4S (MF to 4:30) ME 7S (MF to 4:30) ME 8S (MF to 4:30) Phys 5SL rec, lab (W to 5) Phys 5SM rec, lab (Th to 5) Phys 5SN rec, lab (F to 5) Phys 6SL rec, lab (M to 5) Phys 6SL rec, lab (W to 5) Phys 6SM rec, lab (Th to 5) Phys 6SN rec, lab (F to 5) Phys 7SL rec, lab (M to 5) Phys 7SK rec, lab (T to 5) Phys 7SL rec, lab (W to 5) Phys 7SN rec, lab (F to 5)	Chem 11SM lab (WF to 5) Chem 11SN lab (TTh to 5) Chem 12SM lab (WF to 5) Chem 12SN lab (TTh to 5) Chem 155S (TTh to 5) Phys 5SL lab (M 2:40-5) Phys 5SK lab (T 2:40-5) Phys 6SK lab (T 2:40-5)	Stat 51S lab (TTh to 4:35)
EVENING CLASSES			
5:10	6:10	7:10	8:10
CE 21-22S (MTWThF)	Geog 111-12S (MTWThF) Math 105B (MWF) Phys 6SB (T) Phys 6ST recitation and lab (T to 9:30) Phys 7SB (Th) Phys 7SR recitation and lab (T to 9:30) Phys 8SB (WF) Phys 222S (TTh to 7:25)	Chem 251S (MWF) EE 9-10S (MTWThF to 8:25) Math 6SC (MWF) Phys 161S (TTh 7:35 to 8:50) Phys 232S (WF to 8:25)	Math 12SB (MWF)

## FIRST SESSION—Accelerated Program \*

June 3—July 24

## MORNING CLASSES

7:10	8:10	9:10	10:10	11:10
Bus Adm 51A Bus Adm 52xA Bus Adm 145 Econ 2x Fr 1A Hist 39 Pol Sc 117 Span 1A	Bus Adm 101 Econ 121 Eng 1A Eng 91A Fr 2xA Ger 2x Hist 149 Pol Sc 9A Psych 1A Span 2xA Speech 1A Speech 11A Speech 102x	Bot 35 (MTThF) Chem 21 (TWThF to 1) Chem 151 (MWF) lab (Th to 12) Econ 122x Eng 2xA Eng 51 Fr 5A Ger 1A Hist 71A Math 12xA Pol Sc 10xA Psych 116xA Span 5A Speech 1B Stat 52x	Eng 1B Eng 151 Geog 2x Psych 125 Speech 2x	Bot 1 (TWThF to 1) Chem 151 (MWF) Eng 2xB Geog 108x Psych 2x

## AFTERNOON CLASSES

Biol 1 (TWThF 1:40-4:30) Bot 35 lab (W to 3:30; other hours to be arranged)	Psych 191 (MWF 2:10-4:30) Zoo 1A (MTWTh 1:40-4:30) Zoo 141 (MW 1:40-4:30; Th 1:40-3:30)
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## The Summer Sessions

59

5:10	6:10	7:10	8:10
Econ 101 Ed 109 (MWF to 7) Math 12xB Pol Sc 171 Sec St 12x (5:45 to 7)	Bus Adm 51B Bus Adm 128 Econ 1 Econ 102x Eng 1C Eng 2xC Eng 71 Eng 129 Fr 1B Fr 5B Ger 1B Hist 174x Math 20x Phil 1 Pol Sc 9B Psych 131 Span 1B Span 5B Span 129 Speech 1C Speech 11B Stat 51	Bus Adm 52xB Bus Adm 155 Econ 103 Ed 247 (MW to 9:10) Ed 271 (TTh to 9:10) Eng 1D Eng 2xD Eng 91B Eng 135 Eng 176x Fr 2xB Fr 109 Ger 5 Hist 71B Hist 146x Hist 181 Math 3 Phil 121 Pol Sc 10xB Psych 1B Psych 116xB Psych 217 (MW to 9:10) Psych 227 (TTh to 9:10) Span 2xB Span 109 Speech 1D Speech 109 Stat 115 Zoo 1B (MTWTh to 10) Zoo 144x (MW to 9; TTh to 10)	Phil 2x Pol Sc 281 (MW) Stat 51 lab (MW to 9:15) Stat 115 lab (TTh to 9:15)

## SECOND SESSION—Accelerated Program \*

July 25—September 13

## MORNING CLASSES

7:10	8:10	9:10	10:10	11:10
Bus Adm 51xA Bus Adm 52A Bus Adm 155x Econ 1x Fr 2A Hist 40 Span 2A	Bus Adm 185x Econ 146 Eng 2A Eng 92A Fr 5xA Geog 122 Ger 5x Pol Sc 10A Psych 2A Span 5xA Speech 1xA Speech 11xA	Chem 22 (TWThF to 1) Chem 152 (MWF) lab (Th to 12) Econ 101x Eng 1xA Eng 10 Eng 52 Fr 6A Ger 2A Math 3x Math 19xA Pol Sc 127x Psych 1x Span 6A Speech 1xB Stat 51x	Eng 2B Eng 152 Hist 163x Phil 1x Speech 2	Bot 2 (TWThF to 1) Chem 152 (MWF) Eng 1xB Phil 2 Psych 172

## AFTERNOON CLASSES

Biol 2 (TWThF 1:40-4:30) Stat 51x lab (MW 3:20-4:35)	Zoo 2A (MTWTh 1:40-4:30) Zoo 142 (MW 1:40-4:30; TTh 1:40-3:30)
---	---

EVENING CLASSES

5:10	6:10	7:10	8:10
<p>Econ 105x Math 19xB</p>	<p>Bus Adm 52B Bus Adm 165x Econ 2 Econ 125x Ed 156 Eng 1xC Eng 2C Eng 72 Eng 162 Fr 2B Fr 6B Ger 2B Hist 162 Math 132 Pol Sc 10B Psych 151x Span 2B Span 6B Span 130 Speech 1xC Speech 11xB Speech 102 Stat 52</p>	<p>Bus Adm 51xB Bus Adm 115x Econ 108 Ed 280 (TTh to 9:10) Ed 285x (MW to 9:10) Eng 1ND Eng 2D Eng 92B Eng 136 Fr 5xB Fr 110 Ger 6 Hist 72 Hist 182 Math 6 Phil 132 Pol Sc 151x Psych 2B Psych 143x (MWF to 8:35) Psych 230 (TTh to 9) Span 5xB Span 110 Speech 1xD Speech 109x Stat 116 Zoo 2B (MTWTh to 10)</p>	<p>Geog 275x (MWF) Stat 116 lab (TTh to 9:15)</p>



## THE SCHOOL OF EDUCATION

## Special Six-Week Session—July 1-August 9

8:00 to 9:00 A.M.	9:10 to 10:10 A.M.	10:20 to 11:20 A.M.	11:30 A.M. to 12:30 P.M.
Ed 218 (M through F) (conference hrs: TTh 9:10 A.M.) Ed 227 (M through F) (conference hrs: to be arranged)	Ed 209 (M through F) (conference hrs: TTh 10:20 A.M.) Ed 231 (M through F) (conference hrs: MW 10:20 A.M.)	Ed 272 (M through F) (conference hrs: TTh 9:20 A.M.)	Ed 206 (M through F) (conference hrs: MW 10:20 A.M.) Ed 257 (M through F) (conference hrs: TTh 10:20 A.M.)

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Director of Admissions  
The George Washington University  
Washington 6, D. C.

Dear Sir:

I wish to study at The George Washington University.  
Please send me a copy of the following:

(Check one.)

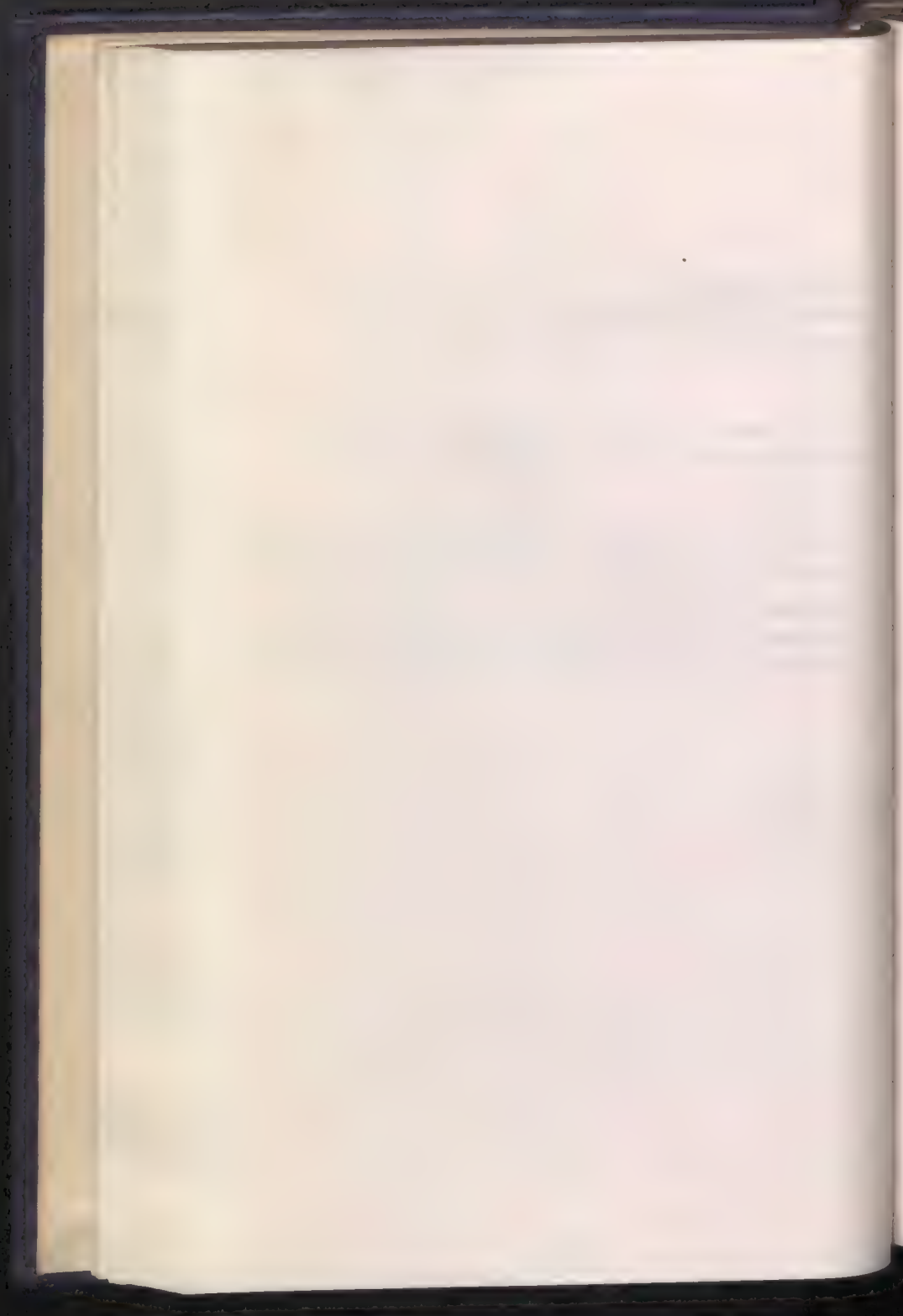
Application for Admission to the University (for new students).

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Name .....

Address .....

.....



THE SCHOOL OF MEDICINE

1946-47





THE  
GEORGE  
WASHINGTON  
UNIVERSITY  
BULLETIN

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VOL. XLV

No. 2

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THE SCHOOL OF MEDICINE

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WASHINGTON, D. C.

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BY THE UNIVERSITY





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# CALENDAR OF THE SCHOOL OF MEDICINE 1946-47

Date	Day	Occasion
<b>1946</b>		
FALL TERM:		
Sept. 23 and 24.	Monday and Tuesday...	Pre-session examinations
Sept. 26-28 ....	Thursday through Saturday .....	Registration period for the academic year 1946-47
Sept. 30 .....	Monday .....	Fall term begins
Nov. 28-30 ....	Thursday through Saturday .....	Thanksgiving recess
Dec. 23-Jan. 1..	Monday through Wednesday .....	Christmas recess
<b>1947</b>		
Jan. 2 .....	Thursday .....	Classes resume
Jan. 16 .....	Thursday .....	Last day of classes for the fall term
Jan. 17-25 .....	Friday through Saturday .....	Fall term examination period
Jan. 27 .....	Monday .....	Classes resume for the winter term
Feb. 22 .....	Saturday .....	University Convocation. Holiday
April 4 and 5...	Friday and Saturday...	Easter recess
May 13 .....	Tuesday .....	Last day of classes for the winter term
May 14-24 ....	Wednesday through Saturday .....	Winter term examination period
May 25 .....	Sunday .....	Baccalaureate Sermon
May 28 .....	Wednesday .....	Commencement
Sept. 23 and 24.	Monday and Tuesday...	Pre-session examinations
Sept. 25-27 ....	Thursday through Saturday .....	Registration period for the academic year 1947-48

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*Technical Assistant in Pharmacology*

ADMINISTRATIVE ASSISTANTS

THE SCHOOL OF MEDICINE

Catherine Breen, *Assistant to the Dean of the School of Medicine*  
Betty Hill Reavis, A.M., *Assistant Librarian, Medical Library*  
Mary Louise Moore, *Secretary*  
Phyllis Brown Gilpin, B.S., *Secretary*  
Naomi Earl Rook, *Secretary*  
Anne Elizabeth Schnepfe, *Secretary*  
Joan Winifred Weidaw, *Secretary*  
June Isenberg, *Secretary*

THE UNIVERSITY HOSPITAL

Juanata Pullen Love, R.N., *Superintendent of Nurses*  
Tommie Jones Bolton, *Secretary to the Medical Director*  
Catherine Elta Nichols, *Bookkeeper*  
Martha Roan, *Dispensary Clerk*  
Theodosia Foxwell Garnett, M.T., S.R.N., *Laboratory Supervisor*  
Dorothy Louise Wine, M.T., *Laboratory Technician*  
Anne Irene Mendelson, A.B., *Laboratory Technician*  
Leopold Henry Forster, Phar.G., *Pharmacist*  
Gertrude Avis Andrews, *X-ray Technician*  
\_\_\_\_\_, *Dietitian*  
Margaret Scruggs French, *Record Librarian*

## THE SCHOOL OF MEDICINE

### THE FACULTY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
Walter Andrew Bloedorn, A.M., M.D., *Dean of the School of Medicine*

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Joseph Hiram Roe, Ph.D., *Professor of Biochemistry*  
Walter Freeman, Ph.D., M.D., *Professor of Neurology*  
Walter Andrew Bloedorn, A.M., M.D., *Professor of Medicine*  
Errett Cyril Albritton, A.B., M.D., *Professor of Physiology*  
Roger Morrison Choisser, B.S., M.D., *Professor of Pathology*  
Winfred Overholser, A.B., M.D., Sc.D., *Professor of Psychiatry*  
Leland Wilbur Parr, Ph.D., *Professor of Bacteriology*  
Frederick August Reuter, M.D., *Professor of Urology*  
Harry Ford Anderson, M.D., *Professor of Dermatology and Syphilology*  
Daniel Bruce Moffett, A.B., M.D., *Professor of Oto-rhino-laryngology*  
John Louis Parks, M.S., M.D., *Professor of Obstetrics and Gynecology*  
Preston Alexander McLendon, B.S., M.D., *Professor of Pediatrics*  
Ernest Alfred Watson Sheppard, M.D.C.M., *Professor of Ophthalmology*  
Brian Brewer Blades, A.B., M.D., *Professor of Surgery*  
Paul Kenneth Smith, Ph.D., *Professor of Pharmacology*  
Radford Brown, M.D., *Clinical Professor of Obstetrics and Gynecology*  
Thomas Carlton Thompson, B.S., M.D., *Clinical Professor of Urology*  
Daniel LeRay Borden, A.M., M.D., *Clinical Professor of Surgery*  
James Winston Watts, B.S., M.D., *Clinical Professor of Neurosurgery*  
Chester Elwood Leese, Ph.D., *Associate Professor of Physiology*  
Thomas Martin Peery, A.B., M.D., *Associate Professor of Pathology*  
Angus MacIvor Griffin, Ph.D., *Associate Professor of Bacteriology*  
Leo Gregor Schmelzer, *Superintendent of the University Hospital*

### COMMITTEES\*

#### THE DEAN'S COUNCIL

Winfred Overholser

Joseph Hiram Roe

Brian Brewer Blades

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\* The President of the University and the Dean of the School of Medicine are members *ex officio* of all committees.



COMMITTEE ON ADMINISTRATION OF THE UNIVERSITY HOSPITAL AND DISPENSARY

Walter Andrew Bloedorn, *Chairman*

John Louis Parks

Brian Brewer Blades

Leo Gregor Schmelzer

COMMITTEE ON ADMISSIONS

Joseph Hiram Roe, *Chairman*

Leland Wilbur Parr

COMMITTEE ON CURRICULUM

Thomas Martin Peery, *Chairman*

Leland Wilbur Parr

John Louis Parks

Harry Filmore Dowling

COMMITTEE ON GRADUATE STUDIES

Errett Cyril Albritton, *Chairman*

John Louis Parks

Paul Kenneth Smith

COMMITTEE ON LIBRARY

Chester Elwood Leese, *Chairman*

Thomas Martin Peery

Harry Ford Anderson

COMMITTEE ON RESEARCH

Brian Brewer Blades, *Chairman*

Roger Morrison Choisser

Ira Rockwood Telford

Angus MacIvor Griffin

Harry Filmore Dowling

COMMITTEE ON SCHOLARSHIP

Leland Wilbur Parr, *Chairman*

Joseph Hiram Roe

John Louis Parks

Chester Elwood Leese

GENERAL INFORMATION

INTRODUCTORY

The School of Medicine of The George Washington University was opened in March 1825; of the medical schools now in existence in the United States, it is the eleventh in chronological order of founding. The University Hospital and Dispensary were established in 1898 and made a part of the organization of the School.

The School is a member of the Association of American Medical Colleges and is one of the medical colleges which have been designated continuously as "class A" by the American Medical Association. The degrees of the School of Medicine are recognized by all state examining boards.

#### PLAN OF INSTRUCTION

Each year of the medical curriculum is divided into two terms of sixteen weeks each. The curriculum for the degree of Doctor of Medicine must begin with the fall term.

The salient features in the method of instruction are thorough laboratory training, demonstrations, and clinical teaching, with recitations and lectures to clarify the many problems presented. The clinical material in the various hospitals and out-patient departments is utilized to the fullest extent for both clinical instruction and laboratory work.

#### EQUIPMENT AND FACILITIES

*The George Washington University Hospital.*—With the aid of a grant from the Federal Works Administration in the amount of \$2,700,000.00, a new 400 bed hospital is being constructed. It will occupy the block bounded by 22d Street, 23d Street, I Street, and Washington Circle on Pennsylvania Avenue, Northwest. Its purpose is to supplement the existing hospital resources of the District of Columbia for the care of patients, the education of physicians and nurses, and the advancement of medical knowledge.

The new hospital will be staffed and controlled by the faculty of the George Washington University School of Medicine. Upon completion, it will provide excellent clinical material for the instruction of medical students. Virtually every specialty in the field of medicine and surgery will have especially assigned space and equipment in this splendid new institution.

The present hospital and dispensary are adjacent to the School of Medicine.

*Medical School Building.*—The building housing the School of Medicine is a five-story structure with lecture rooms and classrooms, laboratories, and students' rooms.

*Laboratories.*—A four-story laboratory building is adjacent to the main medical building. The major laboratories are for anatomy, histology and embryology, bacteriology, hygiene and preventive medicine, biochemistry, pathology, pharmacology and physiology, and clinical microscopy. They are fully equipped to enable students to pursue adequately the laboratory courses and to acquire the technical skill necessary in modern clinical and investigative work.

*Medical Library.*—The Library contains a selected reference collection of more than 5,000 volumes, and provision is made to add to it the important new medical works. The principal medical periodicals are received regularly.

#### GOVERNMENT LIBRARIES AND MUSEUMS

The Library of the Surgeon General's Office of the United States Army is the most complete general medical library in the world. In addition to its great collections of medical works, all leading medical periodicals of the world are available. This Library, as well as the Library of Congress, the Public Library, and the many excellent libraries of the various government departments, is available to students and teachers through a service maintained by the Medical School Library.

The Army Medical Museum affords opportunity for studying the conditions met in military and general medicine and surgery. Its collection of anatomical and pathological specimens is unequaled by any other museum in this country. The Museum of Hygiene, the National Museum, the Smithsonian Institution, the Botanic Gardens, and the Department of Agriculture all afford opportunities for study in Medicine and its allied sciences.

#### CLINICS

The city of Washington, with about a million inhabitants, provides ample clinical material. The University Hospital and Dispensary furnish clinical facilities and a large proportion of the materials studied in the courses in pathology and clinical pathology.

*The University Hospital.*—All clinics are under the supervision of the Dean, who is also Medical Director of the Hospital. This insures the highest possible utilization of available clinical material for teaching purposes and the proper supervision of clinicians and students; it brings the individual student into direct contact with patients and requires him to do, under authoritative supervision, the clinical and laboratory work necessary for diagnosis and treatment; and it permits proper interpretation of the conditions occurring during the progress of cases and promotes the keeping of adequate records. Clinical and clinico-pathological conferences are held in which the history of cases, the physical findings, laboratory records and the post-mortem pathology when available, are presented and correlated.

*The University Dispensary.*—The Dispensary has a large out-patient service in all departments, to which several thousand visits are made annually. Fourth-year students are assigned in rotation by sections for clinical instruction in the Dispensary.

*Gallinger Municipal Hospital.*—Clinical instruction is available in all branches of medicine. A great wealth of clinical material is afforded



in this hospital by ordinance of the municipal authorities of the District of Columbia, whereby one half of the patients are assigned for treatment and clinical teaching to members of the Faculty of this School, nominated by this University. Third-year students serve their clinical clerkships at this institution.

*Children's Hospital.*—Clinical instruction in pediatrics, dermatology, and orthopedic surgery.

*Emergency Hospital and Central Dispensary.*—Clinical instruction in medicine, surgery, obstetrics and gynecology, and the specialties.

*Garfield Memorial Hospital.*—Clinical instruction in gynecology and obstetrics in the out-patient department, on the wards, and in the operating room.

*St. Elizabeths Hospital.*—Clinical instruction in mental and nervous diseases, medicine, post-mortem work, and gross pathology. This hospital, with five and one-half thousand beds, is maintained by the United States Government. The psychiatric clinic is one of the largest in the world.

*Episcopal Eye, Ear and Throat Hospital.*—Clinical instruction in ophthalmology, otology, rhinology, and laryngology.

#### ADMISSION

Sixty\* hours of credit applicable toward a degree in this University or another college of liberal arts and sciences are required for admission to the School of Medicine.

A credit hour represents one class hour or a minimum of two laboratory hours a week for a period of one term of approximately fifteen weeks.

#### SPECIFIC EDUCATIONAL REQUIREMENTS

##### Secondary School Requirements

Of the fifteen secondary school units required, three must be in English, two in one foreign language (ancient or modern), one in algebra, one in geometry, one in history, and one in science (botany, chemistry, physics, or zoology). Eleven of the units offered must be in English, foreign language, mathematics, science, and history.

##### Premedical College Requirements

##### SIXTY\* CREDIT HOURS

1. Chemistry, sixteen credit hours as follows: (a) eight credit hours in general inorganic chemistry, of which at least four credit hours are laboratory work (qualitative analysis may be counted as general inorganic chemistry); (b) eight credit hours or a one-year college course of organic chemistry, including laboratory work.

\* Beginning September 1947, premedical college requirements must total ninety credit hours.



2. *Physica*, eight credit hours, of which at least two credit hours are laboratory work. It is recommended that this course be preceded by one in trigonometry.

3. *Biology*, eight credit hours, of which at least four credit hours are laboratory work. This requirement may be satisfied by a course of eight credit hours in either general biology or zoology, or by four credit hours each in zoology and botany, but not by botany alone.

4. English composition and literature, six credit hours: the usual introductory college course or the equivalent. The student should develop facility in speaking and writing English.

5. Modern foreign language: a reading knowledge, preferably of French or German.

6. Electives. It is recommended that the remaining credit hours required include: (a) comparative vertebrate anatomy; (b) qualitative and quantitative chemical analysis; (c) social science and psychology.

#### ADVANCED STANDING

A student who has satisfactorily attended one or two years at any other "class A" medical school, and who has the necessary preliminary educational requirements, may be admitted to advanced standing.

#### APPLICATION FOR ADMISSION

1. Full directions for application will be furnished on request. The applicant should ask the registrar of each college previously attended to send an official transcript of record to the Director of Admissions, The George Washington University. Photostatic copies of credentials without the original signature of the certifying authority are not satisfactory.

2. A recent photograph, with signature, is required of each applicant.

3. As the number of qualified applicants for admission to the School each year far exceeds its capacity, the candidate for admission should secure from the colleges attended completely compiled premedical credentials and send them for evaluation well in advance of the term for which he is applying.

4. A fee of \$3 to defray the costs of completing the records for final consideration for admission must accompany each application.

#### REGISTRATION AND ADMISSION TO CLASSES

Registration in the School of Medicine is for a period of one academic year (two successive terms). After the student has entered the courses of instruction he is obligated for the full tuition for the academic year. No part of the tuition will be refunded upon withdrawal or dismissal for any cause. Acceptance by the School of a student's fees does not in any

way obligate the School to accept the student for any subsequent year, and the right is reserved to drop any student from the School whenever, in the interest of the student or the School, the Faculty deems it advisable to do so.

Students are admitted to classes on presentation of the Comptroller's ticket, which is issued when all required fees have been paid.

#### FEEES AND FINANCIAL REGULATIONS

The following fees have been adopted:

University fee, for each term or for any part thereof.....	\$8.00
Tuition fee, for each academic year.....	\$34.00
Fee for special examinations, for each subject.....	5.00
Graduation fee .....	20.00

#### UNIVERSITY FEE

Payment of the University fee, charged all students, covers all expenses incident to registration and, in addition, secures to them the following University privileges: (1) the issuance of three certified transcripts of record, if and when desired; (2) the services of the Placement Office; (3) the use of the University library facilities, except as otherwise designated; (4) gymnasium privileges; (5) admission to all athletic contests, unless otherwise specified; (6) subscription to the *University Hatchet*, the student newspaper; (7) admission to University debates; (8) medical attention and hospital services as described under Health Administration, pages 26 and 27. These privileges, however, with the exception of the issuance of transcripts, terminate, and a student is no longer in residence, when he withdraws or is dropped from the University.

#### PAYMENT OF FEES

Fees for each term (including the University fee) are \$275, payable in advance.

All fees are payable at the Office of the Cashier of the University, 725 Twenty-first Street NW. Fees due must be paid at the time of registration; no student is permitted to complete registration or to attend classes until fees are paid.

On account of the many applications for admission, and as the size of each class is limited, places can be reserved only for those qualified applicants who remit a deposit of \$100 which will be credited toward the tuition of the first term. Should unusual circumstances arise whereby the matriculant is unable to attend, this initial payment, less a charge of \$50 for registration, transfer, etc., will be returned up to one month before the opening of the session.

Students will be required to pay for injury to apparatus and other University property. All breakage and loss not directly traceable to an

individual student are assessed pro rata. Each student is required, at the completion of laboratory courses, to replace or pay for all articles of equipment which he has lost, broken, or destroyed. Credit for work will not be given until this is done.

#### COST OF TEXTBOOKS AND STUDENT EQUIPMENT

The minimum cost of necessary textbooks and student equipment (microscope, drawing materials, glass slides, clinical thermometer, stethoscope, hemocytometer, etc.) is approximately as follows: first year, \$350; second year, \$150; third year, \$100; fourth year, \$100; total \$700.

#### LOAN FUNDS

For information concerning loan funds consult the Chairman of the Committee on Student Loans and Scholarships, The George Washington University.

#### LIVING ACCOMMODATIONS

*Women Students.*—Women students under twenty-one years of age who carry twelve or more credit hours of academic work must have their residences approved by the Director of Activities for Women before their registrations can be completed.

Application for room reservations should be made well in advance. Forms for application, together with detailed information, may be obtained from the Director of Activities for Women. The prices stated below are subject to change without notice.

The Hattie M. Strong Residence Hall: single rooms with breakfast and dinner are \$55 a month; double rooms with the same service are \$48 a month a person.

Staughton Residence Hall: single rooms are \$27 a month; double rooms are \$20 a month a person.

*Men Students.*—For information concerning dormitories for men, consult the Director of Activities for Men.

#### REGULATIONS

*Students in the School of Medicine are subject to, and are expected to familiarize themselves with, the general University regulations stated in the University Catalogue.*

#### ABSENCE

Absence is not allowed unless an excuse is obtained from the Dean or the instructor.

Absence consists in being away from a class or clinic during a scheduled period, entering after the class or clinic has begun, or leaving before either is dismissed.



Excuse for absence due to sickness must be accompanied by a certificate signed by the attending physician and must be filed in the Office of the Dean.

For every unexcused absence a department will deduct one-half of one per cent from the student's final grade in the subject involved.

#### GRADES

The following grading system is used: *A* (90-100); *B* (80-89); *C* (75-79); *D* (65-74), condition; *E* (below 64), failure; *Inc.*, incomplete. The passing grade in each subject is *C*.

#### FAILURE

A student who has failed in any subject will not be advanced until such failure is removed and then only by authority of the Committee on Scholarship. All conditions must be removed at the next make-up examination period provided for this purpose.

#### EXAMINATIONS

Examinations which may be written, oral, or practical, will be held at the end of each term.

A student who fails to appear at a regularly scheduled final examination will not be examined until the next regular examination, except by special permission of the Committee on Scholarship. For make-up examinations to remove conditions, a fee of \$5 will be charged for each subject.

All students in the School of Medicine are required to take Part I and Part II of the National Board Examinations, except that students from those states and foreign countries which do not recognize the National Board may be exempted from Part II by action of the Committee on Scholarship.

#### SPECIAL UNDERGRADUATE AND GRADUATE ADVANTAGES

##### HEALTH ADMINISTRATION

The payment of the University fee entitles students to health services hereinafter described. Through reports from the students and University officials, the University attempts to keep informed as to all cases of illness among its students. This service is primarily diagnostic in its intent. It also provides first aid in the event of an emergency.

Medical privileges include: (1) the physical examination of all entering students; (2) three visits by the University physician or surgeon, office or residence (District of Columbia) in any one illness, exclusive of a specialist, surgical operation, laboratory, or X-ray examination;



(3) hospitalization, including board, medicine, and nursing in the University Hospital for not more than two weeks during an academic year—the necessity to be determined by the Director of Health Administration. The duration of hospitalization period (maximum, two weeks) is also to be determined by the Director of Health Administration.

This medical benefit does not apply to illness or disability incurred previous to the University term or prior to payment of the University registration fee.

Students are allowed, if they so desire, to engage physicians and nurses of their own choice, but when they do so they will be responsible for the fees charged.

Rules: (1) The Director of Health Administration is empowered to limit or deny the medical benefits where, in his discretion, a student has, by his misconduct or breach of the rules of the University, made himself ineligible; (2) the Director of Health Administration has authority to determine the necessity and length of hospitalization; (3) students who have severed their connection with the University are ineligible for medical benefits.

#### PHYSICAL EXAMINATIONS\*

All first-year students are given a comprehensive physical examination by the Department of Health Administration upon admission to the School of Medicine. The students are informed of the findings and advised regarding such measures as will tend to maintain a high standard of health.

In addition medical students benefit from the complete Tuberculosis Case Finding Program which the School has maintained since 1938-39. Under this program all students receive tuberculin tests, X-ray examinations, and such special attention from chest specialists as is necessary to reduce to a minimum the dangers from tuberculosis to which medical students are believed to be subject. Students are immunized against those diseases for which proven prophylactics exist.

#### AWARDS AND HONOR SOCIETIES

*John Ordronaux Prize.*—This prize of \$70 is awarded annually to the member of the graduating class of the School of Medicine who has completed the four-year medical course with the highest scholastic standing.

*William Beaumont Medical Society.*—Medical students showing unusual ability are elected by the active members of this society, which was founded to encourage and stimulate individual investigation.

\* A charge of \$2 is made if a student fails to appear for a physical examination during the period set for this purpose.

*A. F. A. King Obstetrical Society.*—The fifteen students in the third and fourth year classes who maintain the highest grades in their work in obstetrics are eligible for membership.

*Smith-Reed-Russell Society.*—Students of the third and fourth years who maintain a scholastic average of 86 per cent are eligible for associate membership.

#### RESERVE OFFICERS' TRAINING CORPS, U. S. ARMY, MEDICAL UNIT

A Medical Unit of the Reserve Officers' Training Corps is established in this School by authority of the Secretary of War, and an officer of the Medical Corps of the Army is detailed to the University for supervision and instruction of the unit.

Membership in the Unit, which is voluntary, is open to any physically fit male student who is a citizen of the United States. The instruction is divided into two two-year courses, the basic and the advanced. Students who satisfactorily complete the basic course may, up to the quota allowed by the War Department, enter the advanced course. A student who enters the advanced course receives approximately \$200 from the Government. He is obligated to complete the course.

A student who successfully completes the course is recommended for a commission in the Medical Section, Officers' Reserve Corps, if he desires appointment. A graduate may, after completion of one year's internship in a civil hospital, compete in the examinations held yearly for appointment as first lieutenant in the Medical Corps, Regular Army.

#### HOSPITAL APPOINTMENTS

Interns and residents are appointed annually in the University Hospital.

Students who, after graduation, desire internships in other hospitals should apply directly to the institution which they wish to enter. A list of hospitals approved for intern training is published annually in the *Journal of the American Medical Association*, and a copy of the list may be consulted in the Office of the Dean.

#### COMMISSION ON LICENSURE, DISTRICT OF COLUMBIA

Graduates who wish to take the examinations of the Commission on Licensure, District of Columbia, or desire to use the District license for reciprocity with the states, should apply to the Secretary, Commission on Licensure, Healing Arts Practice Act, District Building, Washington, D. C.

#### UNIVERSITY MEDICAL SOCIETY

The George Washington University Medical Society was established in 1905. All alumni and members of the Faculty are eligible for membership on election. Meetings of the Society are held in the School of Medi-

cine on the third Saturday evening of each month from October to May. Senior students are invited to attend the meetings of this Society.

#### DEPARTMENTS OF INSTRUCTION

The work of the School is organized under the following departments: Anatomy; Bacteriology, Hygiene, and Preventive Medicine; Biochemistry; Dermatology and Syphilology; Medicine; Military Science and Tactics; Neurology; Obstetrics and Gynecology; Ophthalmology; Otorhino-laryngology; Pathology; Pediatrics; Pharmacology; Physiology; Psychiatry; Surgery; and Urology.

#### CLINICS

Courses of clinical instruction are included in the announcements of the clinical departments. The Dean prepares schedules of clinics and of student section assignments to the various hospitals and dispensaries.

#### THE DEGREE OF DOCTOR OF MEDICINE

Upon the satisfactory completion of the requirements of the School of Medicine, the degree of Doctor of Medicine is conferred.

#### REQUIREMENTS FOR THE DEGREE

Every candidate for graduation with the degree of Doctor of Medicine must be at least twenty-one years of age, of reputable character, and free of all indebtedness to the University. He must have satisfied the admission requirements, completed satisfactorily not less than four academic years of study as a matriculated student in Medicine, completed all required courses, and passed satisfactorily all prescribed examinations.

#### COMBINED ARTS AND MEDICINE CURRICULUM

The candidate registers in the Junior College for the freshman and sophomore years of the premedical curriculum and in Columbian College for the junior year. In order to be recommended for the degree of Bachelor of Arts, he must complete at least ninety credit hours of prescribed college work exclusive of Physical Education (at least thirty credit hours and one year of residence must be completed in Columbian College), and the first year of the medical curriculum. Upon satisfactory completion of the fourth year in the medical curriculum the student becomes eligible for the degree of Doctor of Medicine.



## HONORS

A candidate who has completed the four-year medical course with an average grade of *A* may be recommended for graduation "with distinction".

## GRADUATE AND POSTGRADUATE INSTRUCTION

In cooperation with the Kellogg Foundation, the School of Medicine offers annual intensive refresher courses for physicians with previous specialty training who wish to be brought up-to-date in the constant changes occurring in the techniques and methods of general medicine and the specialties.

In planning this series, the Medical School takes advantage not only of the usual hospital and health facilities of a city and its less urban surroundings but also of the great federal hospitals and research institutions in the National Capital. The postgraduate work, handled through lectures, roundtable discussions, and clinical training, is under the direction of the staff of the School of Medicine and a large guest faculty from all parts of the country selected because of eminence in the specialties.

The 1946 series included the following specialties as well as a course in general medicine:

Anesthesiology	Internal Medicine
General Surgery	Obstetrics
Gynecology	Pediatrics
Infectious Diseases	Psychiatry and Neurology
	Public Health Practice

Correspondence relative to this series of postgraduate courses should be addressed to the Director of Postgraduate Instruction, The School of Medicine.

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In addition to the program described above, an annual, intensive, one-week postgraduate course for physicians is offered by the Department of Ophthalmology in the following subjects: *Ophthalmic Pathology, Surgery, and Orthoptics*.

## ORTHOPTIC TECHNICIAN TRAINING COURSE

A six-month course, of 675 hours of clinical and classroom work, is offered for the training of orthoptic technicians by the Department of Ophthalmology.



## MEDICAL TECHNOLOGISTS COURSE

The course for medical technologists consists of twelve consecutive months of didactic and practical work in all phases of clinical laboratory technique. The course meets the full requirements of the Registry of Medical Technologists and the American Society of Clinical Pathologists. Prerequisite: Biology, 12 credit hours of which at least 6 must be Zoology. The other 6 may be elected from: Histology, Embryology, Anatomy, Physiology, Parasitology, and Bacteriology. Chemistry: General Inorganic Chemistry, 8 credit hours of which at least 4 credit hours must be laboratory work. Quantitative Analysis: at least 4 credit hours with not less than 1 credit hour of laboratory work. (Organic Chemistry may be substituted for Quantitative Analysis, for the present.) Electives: Sufficient to give a total of 60 hours of college credit. The following courses are highly recommended but they are not required: Physics, Biochemistry, Advanced Bacteriology, and Mathematics.

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For application blanks and further information, address the Director of Admissions, The George Washington University, Washington 6, D. C.

## COURSES OF INSTRUCTION

On the following pages of this BULLETIN, under the alphabetically arranged names of the departments of instruction, are listed the courses of instruction offered by the School of Medicine. The courses here listed are subject to some slight change. The University reserves the right to withdraw any course announced.

### EXPLANATION OF COURSE NUMBERS AND SYMBOLS

The number which precedes the name of a course indicates the term of the academic year in which that course is offered. An odd number indicates that the course is offered in the first term; an even number, that it is offered in the second term; and a double number (e.g., 343-44), that it begins in the first term and continues in the second.

A number in parentheses after the name of a nonprofessional course, indicates credit hours.

First-year courses are numbered from 101 to 200; second-year courses, from 201 to 300; third-year courses, from 301 to 400; and fourth-year courses, from 401 to 500.

## ANATOMY

Ira Rockwood Telford, Ph.D., *Assistant Professor of Anatomy*  
Paul Calabrisi, A.M., *Assistant Professor of Anatomy*

- |       |  |           |
|-------|--|-----------|
| 101   | <i>Gross Anatomy</i>   | The Staff |
|       | Instruction in osteology, followed by the careful dissection and study of the entire body. Fifteen hours a week. |           |
| 103   | <i>Histology and Embryology</i>  | The Staff |
|       | The histogenesis and microscopic structure of the tissues and organs of the human body. Twelve hours a week.     |           |
| 104   | <i>Neuro-Anatomy</i>   | The Staff |
|       | Fifteen hours a week.  |           |
| 203-4 | <i>Research</i>  | The Staff |
|       | Hours and credits to be arranged.  |           |



## BACTERIOLOGY, HYGIENE, AND PREVENTIVE MEDICINE

Leland Wilbur Parr, Ph.D., *Professor of Bacteriology, Executive Officer*  
Ralph Gregory Beachley, M.D., Dr.P.H., *Adjunct Professor of Public  
Health Practice*

Angus MacIvor Griffin, Ph.D., *Associate Professor of Bacteriology*  
Mary Louise Robbins, Ph.D., *Instructor in Bacteriology*

### SEMINAR LECTURERS

Roscoe Roy Spencer, A.B., M.D., *Professorial Lecturer in Hygiene and  
Preventive Medicine*

Charles Armstrong, B.S., M.D., Sc.D., *Professorial Lecturer in Pre-  
ventive Medicine*

Rolla Eugene Dyer, A.B., M.D., LL.D., *Professorial Lecturer in Pre-  
ventive Medicine*

Royd Ray Sayers, A.M., M.D., *Professorial Lecturer on Industrial  
Hygiene*

Sara Elizabeth Branham, Ph.D., M.D., Sc.D., *Professorial Lecturer in  
Preventive Medicine*

Chester Wilson Emmons, Ph.D., *Professorial Lecturer on Medical My-  
cology*

Willard Hull Wright, D.V.M., Ph.D., *Professorial Lecturer on Medical  
Zoology*

James Stevens Simmons, M.D., Ph.D., Sc.D., *Professorial Lecturer in  
Preventive Medicine*

John Roderick Heller, Jr., B.S., M.D., *Professorial Lecturer on Venereal  
Disease Control*

Herman Ertresvaag Hilleboe, B.S., M.D., M.P.H., *Professorial Lec-  
turer on Tuberculosis Control*

Carl John Lauter, M.S., *Professorial Lecturer on Municipal Sanitation*

Robert Carter Cook, *Professorial Lecturer on Medical Genetics*

### 112 General Bacteriology (4)

Griffin

A study of the fundamentals of bacteriology, including industrial and hygienic applications. Several groups of bacteria, yeasts, and molds are studied in the laboratory. Material fee, \$7.50. Tues., Thurs., and Sat., 9:10 A.M. to 12:00 M.

209 *Bacteriology, Parasitology, and Immunology* Parr, Griffin

Bacteriological technique study of micro-organisms and parasites related to medical and hygienic problems. Methods of diagnosis are stressed and immunological procedures and theory fully treated. Eighteen hours a week for fourteen weeks.

210 *Immunology and Serology* Griffin

Prerequisite: Bacteriology 112 or 209. One hour a week.

220 *Fundamentals of Hygiene and Preventive Medicine (2)* Parr and Staff

An introduction to the study of preventive medicine and hygiene, involving subject matter suitable for the student of medicine who has not yet had clinical training. Two hours a week.

303-4 *Research in Bacteriology* The Staff

Time and credits to be arranged.

305-6 *Staff Seminar (1-1)* Parr and Staff

Bi-weekly throughout the year.

401-2 *Public Health Practice* Beachley

The application of the principles of preventive medicine in health department practice. One hour a week.

404 *Industrial Hygiene (1)* Sayers

For senior medical students and qualified graduate students. Lecture course dealing with the problems of health maintenance and disease prevention and cure as affected by industry.

## BIOCHEMISTRY

Joseph Hiram Roe, Ph.D., *Professor of Biochemistry, Executive Officer*  
 \*Arnold Kent Balls, Ph.D., *Adjunct Professor of Enzymology*  
 William Henry Sebrell, Jr., M.D., *Professorial Lecturer on Nutrition*  
 Carleton Raymond Treadwell, Ph.D., *Assistant Professor of Biochemistry*  
 Mary Barbara Mills, M.S., *Instructor in Biochemistry*

- |         |  |               |
|---------|--|---------------|
| 113-14  | <b>Biochemistry</b><br>Physiological and clinical chemistry for the first-year medical student.<br>Two lectures and two three-hour laboratory periods a week.  | Roe and Staff |
| 221-22  | <b>Biochemistry (2-2 or 4-4)</b><br>A lecture (2-2) and laboratory (2-2) course for nonmedical students.<br>Prerequisite: Chemistry 152. Material fee, \$12 a term. Time to be arranged.   | Treadwell     |
| 114     | <b>Biochemistry of the Enzymes (elective)</b><br>Lecture course dealing with the biochemistry of the enzymes and enzyme reactions. Prerequisite: Biochemistry 113 or 221. (Not offered in 1946-47.)                              |               |
| 225     | <b>Biochemical Preparations</b><br>Material fee, \$10. Time and credits to be arranged.  | The Staff     |
| 226     | <b>Biochemical Laboratory Methods</b><br>Material fee, \$10. Time and credits to be arranged.  | The Staff     |
| 227-28  | <b>Biochemistry Seminar (1-1)</b><br>The current literature in the field of biochemistry, mainly for graduate students, but open to a limited number of specially qualified medical students. Fri., 4:45 P.M.                    | Roe           |
| 229-30  | <b>Research in Biochemistry</b><br>Time and credits to be arranged.  | Roe           |
| 299-300 | <b>Thesis (3-3)</b>  | Roe           |
| 404     | <b>Applied Nutrition (1)</b><br>For senior medical students and graduate students. Lecture course upon dietary requirements, deficiency diseases, and therapeutic diets. Prerequisite: Biochemistry 114 or 222. Tues., 8:00 A.M. | Sebrell       |

\* On leave of absence 1946-47.



## DERMATOLOGY AND SYPHILOLOGY

Harry Ford Anderson, M.D., *Professor of Dermatology and Syphilology, Executive Officer*

George William Creswell, A.B., M.D., *Associate in Dermatology and Syphilology*

Hayden Kirby-Smith, B.S., M.D., *Associate in Dermatology and Syphilology*

Leon Hugh Warren, A.B., M.D., M.S. in Med., *Clinical Instructor in Dermatology and Syphilology*

George Davis Weickhardt, M.D., *Clinical Instructor in Dermatology and Syphilology*

313-14 *Dermatology and Syphilology* Anderson  
Lectures on diseases of the skin and syphilis. One hour a week.

316 *Neurosyphilis* Weickhardt  
Lectures, clinical demonstrations, and practical diagnostic and therapeutic procedures. One hour a week for eight weeks.

317-18 *Clinic* Kirby-Smith  
Case demonstrations, diagnosis, and treatment of skin diseases and syphilis. Three hours a week. Gallinger Hospital.

407-8 *Clinic* Anderson  
Dermatology and syphilology in infants and children. Children's Hospital. Two hours a week.

409-10 *Clinic* Anderson, Kirby-Smith  
Clinical demonstration, diseases of the skin. Two hours a week. Emergency Hospital.

411-12 *Clinic* The Staff  
Clinical demonstrations, diseases of the skin, and diagnosis and therapy of syphilis. One hour a week. University Hospital.

413-14 *Clinic* Creswell  
Diagnosis, laboratory procedures, and treatment of syphilis. Two hours a week. Southwest Health Center.

## MEDICINE

- Walter Andrew Bloedorn, A.M., M.D., *Professor of Medicine, Executive Officer*
- Coursen Baxter Conklin, A.M., M.D., *Clinical Professor of Medicine*
- Charles Robert Lee Halley, A.B., M.D., *Clinical Professor of Medicine*
- Paul Frederick Dickens, M.D., *Clinical Professor of Medicine*
- Harry Filmore Dowling, A.B., M.D., *Clinical Professor of Medicine*
- Robert Port Herwick, Ph.D., M.D., LL.B., *Adjunct Clinical Professor of Medicine*
- Joseph Thomas Roberts, M.D., Ph.D., *Adjunct Clinical Professor of Medicine*
- Thomas McPherson Brown, M.D., *Adjunct Clinical Professor of Medicine*
- Clark Harvey Yeager, M.D., Dr. P.H., *Professorial Lecturer on Tropical Medicine*
- Walter Kendall Myers, B.S., M.D., *Assistant Clinical Professor of Medicine*
- John Alton Reed, A.B., M.D., *Assistant Clinical Professor of Medicine*
- William Travis Gibb, B.S., M.D., *Assistant Clinical Professor of Medicine*
- Watson William Eldridge, Jr., M.D., *Associate in Medicine*
- Herman Solomon Hoffman, A.B., M.D., *Associate in Medicine*
- John Minor, A.B., M.D., *Associate in Medicine*
- Maurice Protas, A.B., M.D., *Associate in Medicine*
- John Watkins Trenis, M.D., *Associate in Medicine*
- A. Fife Heath, M.D., *Associate in Medicine*
- Elmer Fugitt, M.D., *Associate in Medicine*
- Pearl Holly, M.S., M.D., *Associate in Medicine*
- Benjamin Manchester, M.D., *Associate in Medicine*
- John Ellsworth Everett, A.B., M.D., *Associate in Medicine*
- Irving Wolfe Winik, M.D., *Associate in Medicine*
- Lawrence Jay Thomas, B.S., M.D., *Associate in Medicine*
- Richard Bernard Castell, A.B., M.D., *Clinical Instructor in Medicine*
- Luther Henry Snyder, A.B., M.D., *Clinical Instructor in Medicine*
- Emil Herbert Bauersfeld, A.B., M.D., *Clinical Instructor in Medicine*
- John Bayne Marbury, M.D., *Clinical Instructor in Medicine*
- Louis Ross, M.D., *Clinical Instructor in Medicine*
- William Kirkman Billingsley, Jr., A.B., M.D., *Clinical Instructor in Medicine*
- Carl Calvin Dauer, A.B., M.D., M.P.H., *Clinical Instructor in Medicine*

- Simon Weiner, B.S., M.D., *Clinical Instructor in Medicine*  
 Clarence Richard Hartman, A.B., M.D., *Clinical Instructor in Medicine*  
 Lawrence Elias Putnam, A.B., M.D., *Clinical Instructor in Medicine*  
 Ruth Benedict, A.B., M.D., *Clinical Instructor in Medicine*  
 James Theodore Burns, M.D., *Clinical Instructor in Medicine*  
 Frederic Dunbar Chapman, A.B., M.D.C.M., *Clinical Instructor in Medicine*  
 Irvin Kerlan, B.S., M.D., C.P.H., *Clinical Instructor in Medicine*  
 Virginia Patterson Beelar, A.B., M.D., *Clinical Instructor in Medicine*  
 Paul Fleming-Holland, M.D., *Clinical Instructor in Medicine*  
 James Joseph Feffer, A.B., M.D., *Clinical Instructor in Medicine*  
 Myer Harold Stolar, B.S., M.D., *Clinical Instructor in Medicine*  
 Sidney Olansky, M.D., *Clinical Instructor in Medicine*  
 Alfred Briglio, M.D., *Clinical Instructor in Medicine*  
 Lester Sylvan Blumenthal, A.B., M.D., M.S. in Med., *Clinical Instructor in Medicine*  
 Samuel Jacob Nathan Sugar, Ph.D., M.D., *Clinical Instructor in Medicine*  
 Roy Hertz, Ph.D., M.D., *Clinical Instructor in Medicine*  
 Joseph Ney, B.S., M.D., *Clinical Instructor in Medicine*  
 Harold Lester Hirsh, M.D., *Clinical Instructor in Medicine*

232 *History of Medicine*

Halley

One hour a week.

236 *Laboratory Medicine and Hematology*

Holly

Lectures and laboratory work covering aspects of laboratory diagnosis of disease, including a study of: urinalysis, blood counting, the anemias, leukemias, and other blood dyscrasias. Examination of exudates, transudates, stomach contents, spinal fluids, and stools also emphasized. Three hours a week.

241-42 *Physical Diagnosis*

Conklin and Staff

Demonstrations and practice on the normal and abnormal subject; designed to cover the entire subject of physical diagnosis.

244 *General Medicine*

Bloedorn, Halley

Lectures covering general aspects of all phases of medical disease, and including therapeutics. Three hours a week.

312 *Radiology and Radiotherapy*

The Staff

One hour a week.

324 *Clinical Physiology*

Dickens

Lectures and clinics for the correlation of preclinical and laboratory studies of physiology with altered function as observed in clinic and ward. One hour a week.



- 325-26 *Clinical Clerkship* Dowling and Staff  
Individual case work under strict supervision (student's histories generally accepted as hospital records). Emergency and Gallinger hospitals.
- 327-28 *Clinical Pathological Conference* Bloedorn, Choisser  
Required in the third and fourth years. Correlation of clinical and post-mortem findings: detailed case descriptions from the clinical point of view, followed by thorough demonstrations, grossly and with lantern slides, of post-mortem findings. One hour a week.
- 349-50 *Grand Ward Rounds* Bloedorn and Staff  
Conducted weekly at Gallinger Hospital. Cases are presented at this conference by members of the Resident Staff and Visiting Staff.
- 416 *Tropical Medicine* Yeager  
Lectures, laboratory exercises, museum and clinical demonstrations designed to familiarize the student with problems of tropical medicine, particularly as applied to the present emergency. Two hours a week.
- 417-18 *Physiotherapy* Eldridge  
Lectures and demonstrations of the fundamentals of physical treatment and their applications to general medical diseases. St. Elizabeths Hospital.
- 420 *Medical Jurisprudence* Eldridge  
Lectures on the legal and ethical rights of physicians, and on the legal problems with which the physician is brought into contact. One hour a week for eleven weeks.
- 421-22 *Dispensary Clinics* The Staff  
Thorough study of individual cases subsequently reviewed in detail by the Staff. The University and Emergency hospitals.
- 425-26 *Clinical Clerkship* Dickens, Halley  
Individual case work under strict supervision (student's histories generally accepted as hospital records). The University and Emergency hospitals.
- 440 *Clinical Pharmacology* Herwick  
Brief review in materia medica, prescription writing and the fundamentals of therapeutics; discussion of the pharmacological basis of therapeutics.
- 499 *Clinical Physiology* Dickens  
Continuation of Medicine 324. One hour a week.

## MILITARY SCIENCE AND TACTICS

Lawrence Brewster Lyons, Captain, Infantry, Army of the United States,  
*Professor of Military Science and Tactics*

- 129-30 *Basic Course (First Year)* Lyons  
Legal basis of national defense; organization of the Army and the Medical Department; military law and courts-martial, customs of the service; map reading; military administration.
- 247-48 *Basic Course (Second Year)* Lyons  
Organization and operation of the Medical Department with the Arms; combat orders and problems; map exercises; medical service of Infantry and Cavalry divisions.
- 329-30 *Advanced Course (First Year)\** Lyons  
Mess management; military preventive medicine; sanitation; chemical warfare, tactics, defense, and medical aspects.
- 429-30 *Advanced Course (Second Year)\** Lyons  
Military history; leadership; diseases peculiar to war; organization and equipment within the division; mobilization; property accounting.

\* Students in the first and second year of the advanced course are selected from those who have satisfactorily completed the basic course.

## NEUROLOGY

Walter Freeman, Ph.D., M.D., *Professor of Neurology, Executive Officer*

James Winston Watts, B.S., M.D., *Clinical Professor of Neurosurgery*

Hyman David Shapiro, M.D., *Assistant Clinical Professor of Neurology*

Robert Henry Groh, B.S., M.D., *Clinical Instructor in Neurology*

Paul Chodoff, A.B., M.D., *Clinical Instructor in Neurology*

Vasilios Simos Lambros, M.D., *Clinical Instructor in Neurosurgery*

Harold Stevens, M.D., Ph.D., *Clinical Instructor in Neurology*

### 249 *Neurology (elective)*

Freeman

Methods of study of the nervous system. Gross and microscopic preparations, embryology, comparative anatomy, stimulation and extirpation, human pathology, etc. Laboratory demonstrations. One hour a week.

### 331 *Neurology*

Watts and Staff

Systematic lectures with lantern slides illustrating the chief neurologic syndromes and their anatomic bases. One hour a week.

### 333-34 *Neurology Clinic (elective)*

Freeman and Staff

May be elected in the third or fourth year. Neurological outpatient clinic. Consultation of staff on ambulatory cases, demonstration of diagnostic procedures, disposition of neuropsychiatric cases. Discussion of neuropathologic material. Three hours a week.

### 431 *Neurosurgery (elective)*

Watts

Lectures and clinical demonstrations in surgery of the brain, spinal cord, and peripheral nerves. Emphasis is laid upon fundamentals and upon the possibilities of surgery in the relief of symptoms. One hour a week.

### 433 *Clinical Neurology*

Freeman

Lectures and demonstrations of patients illustrating the diagnosis and treatment of nervous disorders. Material is available at St. Elizabeths Hospital illustrative of the more common disorders and some of the unusual syndromes. One hour a week.

### 435-36 *Neurologic Examinations*

Freeman and Staff

Practical instruction in the examination of patients presenting nervous diseases. Detailed examination of six patients is required of each student. St. Elizabeths Hospital. One-fourth of the class, two hours a week.



## OBSTETRICS AND GYNECOLOGY

- John Louis Parks, M.S., M.D., *Professor of Obstetrics and Gynecology, Executive Officer*
- Radiard Brown, M.D., *Clinical Professor of Obstetrics and Gynecology*
- Jacob Kotz, M.D., *Clinical Professor of Obstetrics and Gynecology*
- Henry Lauran Darner, A.B., M.D., *Clinical Professor of Obstetrics and Gynecology*
- Herbert Percy Ramsey, A.B., M.D., *Clinical Professor of Obstetrics and Gynecology*
- Thomas Miles Leonard, Ph.B., M.D., *Adjunct Clinical Professor of Obstetrics and Gynecology*
- George Nordlinger, A.B., M.D., *Associate in Obstetrics and Gynecology*
- Joseph Harris, A.B., M.D., *Associate in Obstetrics and Gynecology*
- Laurence Lee Cockerille, M.D., *Associate in Obstetrics and Gynecology*
- Clayton Howard Hixson M.D., *Associate in Obstetrics and Gynecology*
- Henry John Russell McNitt, B.S. in Med., M.D., *Associate in Obstetrics and Gynecology*
- Samuel Mayer Dodek, A.M., M.D., *Associate in Obstetrics and Gynecology*
- Russel Jon Jansen, M.D., *Associate in Obstetrics and Gynecology*
- Howard Pope Parker, A.B., M.D., *Associate in Obstetrics and Gynecology*
- Roger O'Donnell, Jr., A.B., M.D., *Associate in Obstetrics and Gynecology*
- Katherine Elizabeth Parker, A.M., M.D., *Clinical Instructor in Obstetrics and Gynecology*
- William Dandridge Terrell, Jr., M.D., *Clinical Instructor in Obstetrics and Gynecology*
- James Albert Dusbabek, M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Barton Winters Richwine, M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Samuel Hazen Shea, M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Julius Robert Epstein, M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Morton Selwyn Kaufman, A.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Floyd Sterling Rogers, M.D., *Clinical Instructor in Obstetrics and Gynecology*
- Clarence Kendall Fraser, Ph.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*

Rufus Martin Roll, A.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*

Caroline Jackson, A.M., M.D., *Clinical Instructor in Obstetrics and Gynecology*

Jeremiah Keith Cromer, M.D., *Clinical Instructor in Obstetrics and Gynecology*

Jed Williams Pearson, Jr., A.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*

**253-54 Normal Obstetrics**

Fraser, Dodek

Lectures and demonstrations on the physiology and management of normal pregnancy. One hour a week.

**337-38 Abnormal Obstetrics**

Nordlinger, Parks

Lectures and demonstrations on the complications of pregnancy. One hour a week.

**343-44 Gynecology**

Brown

Lectures and demonstrations on the principles of gynecology. One hour a week for seven weeks.

**345-46 Manikin Demonstrations**

Harris

The mechanism of labor and various types of operative delivery demonstrated to sections of the class in seven one-week sessions.

**404-5 Marriage and Marital Problems**

Ramsey, Nordlinger

A course of instruction in marriage counseling and planned parenthood. One hour a week.

**441-42 Clinical Obstetrics**

Parks and Staff

Senior students participate in prenatal and postnatal clinic care; make postpartum home calls; observe the course of labor and deliver patients under supervision; attend biweekly departmental conferences and daily ward rounds in the University, Gallinger, and Garfield hospitals.

**443-44 Clinical Gynecology**

Parks and Staff

Senior students observe and participate in the gynecological work of the clinics operating rooms, and gynecological wards of the University, Gallinger, and Garfield hospitals.

**446 Female Endocrinology and Operative Gynecology**

Kotz, Darner

Lectures on the physiology and the pathology of the female endocrine system and on principles of gynecological surgery. One hour a week.

## OPHTHALMOLOGY

Ernest Alfred Watson Sheppard, M.D.C.M., *Professor of Ophthalmology, Executive Officer*

\*Edgar Leonard Goodman, M.D., M.M.S., *Assistant Clinical Professor of Ophthalmology*

Ronald Atmore Cox, A.B., M.D., *Assistant Clinical Professor of Ophthalmology*

Frank Duncan Costenbader, B.S., M.D., *Assistant Clinical Professor of Ophthalmology*

Richard Wallace Wilkinson, A.B., M.S., M.D., *Associate in Ophthalmology*

Sterling Bockoven, M.D., *Associate in Ophthalmology*

Walter Joseph Romejko, M.D., *Clinical Instructor in Ophthalmology*

Carmon Robert Naples, B.S., M.D., *Clinical Instructor in Ophthalmology*

Micollus Noel Stow, M.D., D.M.S., *Clinical Instructor in Ophthalmology*

James Spencer Dryden, M.D., *Clinical Instructor in Ophthalmology*

### 351-52 *Ophthalmology*

The Staff

A lecture course presenting the principles of ophthalmology, with special reference to topics of importance to the general practitioner. One hour a week for sixteen weeks.

### 447 *Clinic*

The Staff

Intensive training in diseases of the eye; etiology, diagnosis, and treatment in their application to clinical cases. Episcopal Hospital. Three hours twice a week.

\* On leave of absence 1946-47.



## OTO-RHINO-LARYNGOLOGY

Daniel Bruce Moffett, A.B., M.D., *Professor of Oto-rhino-laryngology, Executive Officer*

William Herndon Jenkins, M.D., *Clinical Professor of Oto-rhino-laryngology*

Leroy Lee Sawyer, A.B., M.D., *Assistant Clinical Professor of Oto-rhino-laryngology*

David Davis, A.B., M.D., *Associate in Oto-rhino-laryngology*

Aubrey David Fischer, M.D., *Associate in Oto-rhino-laryngology*

Jeter Carroll Bradley, M.D., *Associate in Oto-rhino-laryngology*

Joel Norton Novick, M.S., M.D., *Clinical Instructor in Oto-rhino-laryngology*

John Gordon Bell, M.D., *Clinical Instructor in Oto-rhino-laryngology*

Catharine Birch, A.B., M.D., *Clinical Instructor in Oto-rhino-laryngology*

Homer King Vann, A.B., M.D., *Clinical Instructor in Oto-rhino-laryngology*

### 451 *Oto-rhino-laryngology*

Moffett, Jenkins

Lectures and demonstrations on anatomy, physiology, and diseases of the ear, nose, and throat. One hour a week.

### 454 *Bronchoscopy*

Davis

A series of lectures on the fundamental principles and the use of instruments, including both the bronchoscope and esophagoscope. One hour a week for two weeks.

### 456 *Clinic*

The Staff

Practical clinical instruction in the diagnosis and treatment of diseases of the ear, nose, and throat. Episcopal Hospital. One and one-half hours twice a week.



## PATHOLOGY

**Roger Morrison Choisser, B.S., M.D.,** *Professor of Pathology, Executive Officer*

**Thomas Martin Peery, A.B., M.D.,** *Associate Professor of Pathology*

**Anna Margaret Allen, L.R.C.P.S.I., D.P.H.,** *Instructor in Pathology*

**Jack Spier, M.D.,** *Instructor in Pathology*

### 259-60 *Pathology*

**Choisser, Peery**

Malformations, inflammations, degenerations, and neoplasms; special pathology of the organs and specific diseases. The laboratory work consists of the gross and microscopic study of diseased tissues. Necropsies are held regularly at the University and Gallinger hospitals.

### 307 *Necropsy (elective)*

**The Staff**

Students assist in the performance of necropsies. Fresh gross specimens and microscopic sections from each case are presented at weekly conferences. Current literature relating to cases is reviewed and presented by the students.

### 327-28 *Clinical Pathological Conference*

**Choisser, Bloedorn**

Required in the third and four years. Case histories are presented and discussed by members of the staff and student body; necropsy and clinical findings are compared, and gross and microscopic specimens examined. One hour a week.

### 460 *Research*

**Choisser**

Hours and credits to be arranged.

## PEDIATRICS

- Preston Alexander McLendon, B.S., M.D., *Professor of Pediatrics, Executive Officer*  
 Charles Aurelius Schutz, M.D., *Clinical Professor of Pediatrics*  
 Margaret Mary Nicholson, A.B., M.D., *Clinical Professor of Pediatrics*  
 Edward Lewis, M.D., *Clinical Professor of Pediatrics*  
 Lewis Kaigler Sweet, A.B., M.D., *Adjunct Clinical Professor of Pediatrics*  
 William Staton Anderson, A.B., M.D., *Assistant Clinical Professor of Pediatrics*  
 Mabel Harlakenden Grosvenor, A.B., M.D., *Assistant Clinical Professor of Pediatrics*  
 John Augustine Washington, A.B., B.S., M.D., *Assistant Clinical Professor of Pediatrics*  
 Aaron Nimetz, A.B., M.D., *Assistant Clinical Professor of Pediatrics*  
 Dorothy Steinle Jaeger, M.D., *Associate in Pediatrics*  
 George Maksim, M.D., M.S. in Ped., *Associate in Pediatrics*  
 John Howell Peacock, B.S., M.D., *Clinical Instructor in Pediatrics*  
 Herbert Harold Diamond, M.D., *Clinical Instructor in Pediatrics*  
 Frederic Gerard Burke, B.S., M.D., *Clinical Instructor in Pediatrics*  
 Reginald Henry Mitchell, M.D., *Clinical Instructor in Pediatrics*

- 354 *Pediatrics* Nicholson  
 Ward walks and weekly clinic. Gallinger Hospital. Two sections.
- 355-56 *Pediatrics* Schutz  
 Lectures on diseases and malformations of the newly born. Growth, metabolism, nutrition, nutritional diseases, therapeutics, habits, preventive pediatrics, and social aspects are considered. One hour a week for twenty-four weeks.
- 357-58 *Clinic* Peacock, Grosvenor  
 Clinical instruction in the care and diseases of the newly born, congenital malformations, birth injuries, and prematurity. Gallinger Hospital. One-fourth of the class, one hour a week.
- 359-60 *Contagious-Disease Clinic* The Staff  
 Bedside instruction in scarlet fever, diphtheria, etc. Gallinger Hospital. One-fourth of the class, one hour a week. Ward walks twice a week.
- 463-64 *Child-Welfare and Preventive Clinic* Schutz, Jaeger  
 Clinical course in the infant and the pre-school child. Children's Hospital, Child Welfare Center. One section, one hour a week.

**465-66 Clinic**

**The Staff**

Out-patient clinic: minor to serious disorders of children, emotional life of the child, habit formations, and behavior problems. Children's Hospital. One section, Mon., Tues., Wed., and Fri., one and one-half hours.

**467-68 Clinic**

**McLendon and Staff**

Teaching clinic. Children's Hospital. Entire class, one and one-fourth hours a week.

**469-70 Clinical Clerkship**

**The Staff**

Individual case work under strict supervision. Students act as Junior Interns throughout the hospital. Children's Hospital. One-fourth of class, daily. 9:30 A.M. to 4:30 P.M.

**471-72 Allergy Clinic**

**Jaeger**

Prerequisite: Bacteriology 209. Practical work in the Allergy Clinic of Children's Hospital may be obtained by a small group of senior students. Two afternoons a week.

## PHARMACOLOGY

Paul Kenneth Smith, Ph.D., *Professor of Pharmacology, Executive Officer*

Edgar William Ligon, Jr., Ph.D., *Assistant Professor of Pharmacology*

Edward Leong Way, Ph.D., *Instructor in Pharmacology*

261 *Pharmacology*

The Staff

Lectures, conferences, and demonstrations concerning the action of drugs. A comprehensive course considering the biochemical and physiological responses to the administration of drugs as a basis for the rational therapy of disease. Five hours a week for the first half of the second year.

263 *Pharmacology Laboratory*

The Staff

Laboratory instruction designed to supplement the above course. Five hours a week for the first half of the second year.

362 *Pharmacological Research*

The Staff

Primarily for those properly qualified graduate and medical students seeking careers in pharmacology. Hours to be arranged.



## PHYSIOLOGY

**Errett Cyril Albritton, A.B., M.D.,** *Professor of Physiology, Executive Officer*

**Chester Elwood Leese, Ph.D.,** *Associate Professor of Physiology*

**Robert Custis Grubbs, A.B., M.S., M.D.,** *Assistant Professor of Physiology*

### 115 *Physiology* (3)

Leese and Staff

Lectures for academic students covering the fundamentals of physiology in its various subdivisions. Prerequisite: one year of general science or one term of a biological science. Section A: Tues., Thurs., and Sat., 9:10 A.M.; section B: Tues. and Thurs., 5:10 to 6:25 P.M.

### 117 *Physiology* (1)

Grubbs

Laboratory exercises in the fundamentals of physiology, for academic students. Prerequisite: Physiology 115 or the equivalent. The two, 115 and 117, may be taken concurrently. Material fee, \$12. Sat., 10:10 A.M. to 1:00 P.M.

### 132 *Physiology*

Albritton and Staff

One hundred physiological lectures in the following divisions, each as a unit: (1) blood, heart, circulation, respiration, and acid-base balance; (2) nutrition, digestion, metabolism, excretion, temperature regulation, and water balance; (3) sensory reception, central nervous processes, and somatic and visceral motor activity; (4) the endocrine glands and reproduction.

### 134 *Experimental Physiology*

Albritton and Staff

Laboratory work in each of the divisions listed in Physiology 132. Eight hours a week.

### 137 *First Aid*

Grubbs and Staff

Lectures by the staff and practical exercises conducted by qualified Red Cross First Aid instructors designed to enable the student to complete the "standard" course in First Aid and to appreciate the value and limitations of such training. One hour a week.

### 200 *Physiology of Endocrine Activity* (1 or 2)

Albritton

The circulatory, metabolic, reproductive, growth, and other adaptations, immediate and long term, accompanying and affecting endocrine activity. May be taken for two credits with additional work. Prerequisite: Physiology 115 or the equivalent. Tues., 5:10 P.M.

### 269-70 *Problems in Physiology*

Albritton and Staff

Hours and credits to be arranged.

### 272 *Experimental Method* (1)

Albritton

Design of controlled experiments in medical or biological investigation; errors in design; criticism and judgment of evidence, and tests of the statistical significance of experimental results. Sat., 10:00 A.M.

274 *The Psycho-physiology of Personality* (2) Leese  
Lectures on the genesis and expression of personality, with emphasis  
on the physiological approach. Tues. and Thurs., 6:10 P.M.

275-76 *Research* Albritton and Staff  
Hours and credits to be arranged.

## PSYCHIATRY

Winfred Overholser, A.B., M.D., Sc.D., *Professor of Psychiatry, Executive Officer*

Roscoe Willis Hall, Ph.B., M.D., *Clinical Professor of Psychiatry*

Solomon Katzenelbogen, M.D., *Clinical Professor of Psychiatry*

Addison McGuire Duval, M.D., *Assistant Clinical Professor of Psychiatry*

Harriet Elizabeth Twombly, A.B., M.D., *Associate in Psychiatry*

Samuel Alexander Silk, Ph.D., M.D., *Associate in Psychiatry*

Edgar Deucher Griffin, A.B., M.D., *Associate in Psychiatry*

Isabelle Kendig, Ph.D., *Associate in Psychiatry*

William Green Cushard, M.D., *Clinical Instructor in Psychiatry*

- 136 *Introductory Medical Psychology* Overholser and Staff  
Theoretical and practical aspects of the constitution, character, and personality as related to medicine; psychological features in various diseases; types of character development and their ways of adaptation. One hour a week.

- 278 *Psychopathology* Hall  
Manifestations and understanding of various abnormal mental mechanisms and reaction-types, illustrated with suitable case material, and preceded by history of development of psychopathology. One hour a week.

- 366 *Psychiatry* Overholser  
Major psychoses, illustrated by the presentation of clinical material and utilized for the purpose of explaining the fundamental psychological mechanisms involved. St. Elizabeths Hospital. One hour a week.

- 368 *Psychosomatic Aspects of General Medicine* Katzenelbogen  
Somatic disorders of functional origin versus organic structural disorders. The role of personality reactions in somatic disorders (illustrative cases). St. Elizabeths Hospital. One hour a week.

- 370 *Personality Adjustments*  
Maladaptations occurring in childhood and youth. One hour a week for eight weeks.

- 427-28 *Psychological Techniques in Psychiatric Practice* Kendig  
Discussion of psychological concepts and tools available for determination of intellectual level, personality structure, functional impairment, and organic deterioration. One hour a week for four weeks.

**473-74 Ward Work****The Staff**

Personal mental examinations and formal written report of the examination of the various types of psychoses, followed by a review of the cases with an instructor. St. Elizabeths Hospital. Two hours a week.

**475 Psychoneurosis****Duval**

The clinical aspects, the etiology, the psychopathology, and the treatment of the various psychoneuroses. One hour a week for twelve weeks.



## SURGERY

- Brian Brewer Blades, A.B., M.D., *Professor of Surgery, Executive Officer*
- Daniel LeRay Borden, A.M., M.D., *Clinical Professor of Surgery*
- Paul Stirling Putzki, M.D., *Clinical Professor of Surgery*
- Arch Lockhart Riddick, B.S., M.D., *Clinical Professor of Surgery*
- William Berry Marbury, M.D., *Clinical Professor of Surgery*
- Custis Lee Hall, M.D., *Clinical Professor of Surgery*
- Donald Harrison Stubbs, A.M., M.D., *Clinical Professor of Anesthesiology*
- Lloyd H. Mousel, M.S., M.D., *Clinical Professor of Anesthesiology*
- William Russell Moses, M.D., *Adjunct Clinical Professor of Surgery*
- Vincent Michael Iovine, B.S., M.D., *Adjunct Clinical Professor of Surgery*
- Wallace Harry Graham, B.S., M.D., *Professorial Lecturer in Surgery*
- John Hugh Lyons, M.S., M.D., *Associate Clinical Professor of Surgery*
- Herbert Hermann Schoenfeld, M.D., *Associate Clinical Professor of Surgery*
- William Warren Sager, M.S., M.D., *Associate Clinical Professor of Surgery*
- Benjamin Franklin Dean, Jr., M.S., M.D., *Assistant Clinical Professor of Surgery*
- Alec Horwitz, M.S., M.D., *Assistant Clinical Professor of Surgery*
- Joseph Kreiselman, M.S., *Assistant Clinical Professor of Anesthesiology*
- William Stanley McCune, A.B., M.D., *Assistant Clinical Professor of Surgery*
- Cline N. Chipman, M.S., *Associate in Anesthesiology*
- Richard Knight Thompson, D.D.S., *Associate in Dental Surgery*
- Julius Salem Neviaser, A.B., M.D., *Associate in Surgery*
- William Ross Morris, M.D., *Associate in Surgery*
- Philip Pelland, M.D., *Associate in Surgery*
- Harold Walter Krogh, D.D.S., *Associate in Dental Surgery*
- Jacob Joseph Weinstein, B.S., Phar.G., M.D., *Associate in Surgery*
- William Carey Meloy, M.D., M.S. in Med., *Associate in Surgery*
- Jerome Blaine Harrell, M.D., *Associate in Surgery*
- Edward Alexander Cafritz, M.D., *Clinical Instructor in Surgery*
- Hazen Eugene Cole, B.S., M.D., *Clinical Instructor in Surgery*
- Crenshaw Douglas Briggs, B.S., M.D., *Clinical Instructor in Surgery*
- William Wiley Chase, A.B., M.D., *Clinical Instructor in Surgery*
- Arthur James Mourot, B.S., M.D., *Clinical Instructor in Surgery*
- Joseph Francis Conlon, D.D.S., *Clinical Instructor in Dental Surgery*

Otto Anderson Engh, A.B., M.D., *Clinical Instructor in Surgery*  
 Duane Case Richtmeyer, A.B., M.D., *Clinical Instructor in Surgery*  
 Richard Lee Jackson, M.D., *Clinical Instructor in Surgery*  
 Leon Gerber, M.D., *Clinical Instructor in Surgery*  
 Walter Henry Gerwig, Jr., M.D., *Clinical Instructor in Surgery*  
 Leonard Theodore Peterson, A.B., B.S., M.D., *Clinical Instructor in Surgery*

279-80 *General Surgery* Dean, Harrell  
 Course of lectures and recitations covering surgical diseases of the neck and chest, herniae, amputations, and pre- and post-operative treatment. One hour a week for twenty-eight weeks.

283 *Principles of Surgery* The Staff  
 A clinical and laboratory course covering the fundamentals of surgery, including studies in inflammation, wound healing, etc. One hour laboratory and one hour in the clinics.

371-72 *General Surgery* Putzki, Riddick  
 Course of lectures and recitations covering surgery as applied to the neck, thorax, gastro-intestinal tract, and the bones and skeletal muscles. One hour a week.

373-74 *Ward Walks* The Staff  
 Well-organized group ward-rounds are made with the visiting physicians and their respective staffs in the course of their usual rounds. Gallinger and Emergency hospitals.

375-76 *Surgical Clinic* The Staff  
 Clinical teaching and demonstrations on the care of the various surgical diseases, with special emphasis on the pre- and post-operative management. Gallinger Hospital.

379-80 *Surgical Staff Conference* Blades  
 Gallinger Hospital. One hour a week.

381-82 *Clinical Clerkship* The Staff  
 The student is assigned and required to work up thoroughly the cases for diagnosis and treatment. Gallinger Hospital.

478 *Orthopedics* Hall  
 Etiology, pathology, symptomatology, and treatment of congenital and acquired diseases of the bones and joints, and the clinical instruction in treatment and in the use of appliances for the correction of deformities. One hour a week.

481 *General Surgery* The Staff  
 One hour a week.

483-84 *Dispensary Clinic* The Staff  
 Dispensary instruction in the principles and practice of surgery. Instruction of small groups is given in general surgery and the specialties, including anesthesia, neurosurgery, orthopedics, proctology, and oral surgery. University and Emergency hospitals.

485-86 *Special Problems in Surgery*

Riddick, Dean

General surgical diagnosis, with special emphasis on the diagnosis and differential diagnosis of surgical diseases and post-operative complications. One hour a week.

488 *Surgical Clinic*

The Staff

Demonstration to the entire class of the various surgical diseases. One hour a week.

489 *Surgical Anatomy*

Horwitz

One hour a week.

## UROLOGY

Frederick A. Reuter, M.D., *Professor of Urology, Executive Officer*  
Thomas Carlton Thompson, B.S., M.D., *Clinical Professor of Urology*  
Gilbert Ottenberg, A.M., M.D., *Associate in Urology*  
William Dabney Jarman, B.S., M.D., *Clinical Instructor in Urology*

- 491-92 *Urology* Reuter  
Lectures covering the entire field of urology, including diagnosis, treatment, and morbid pathology. One hour a week.
- 493-94 *Clinics* The Staff  
Clinical teaching and demonstrations on the care of urological cases with special emphasis on the pre- and post-operative management. Operative clinics and clinical teaching. Gallinger Hospital.
- 495-96 *Clinics* Reuter and Staff  
Clinical demonstrations and teaching in the dispensary, with special attention given to diagnostic procedures. Emergency and University hospitals. One part of each section daily.



# DEGREES CONFERRED

1945-46

## DOCTOR OF MEDICINE

MAY 30, 1945\*

Amoroso, William Louis, Jr. Baker, Stewart Lee, Jr. B.S. 1942, University of Maryland	D.C.	Hays, Freeman Cornelius B.S. in Pharm. 1941, University of Mississippi	Miss.
Bean, H. Richard A.B. 1942, American University	D.C.	Heenahan, Thomas Alexander B.S. 1941, University of Michigan	N.J.
Berry, Guy Neill H. B.S. 1942, Northwestern University	Mo.	Hoffman, Carl Joseph B.S. 1941, Catholic University of America	Pa.
Bingham, Maurice Nolan Black, Emile Ann B.S. 1942, The George Washington University	Wash. D.C.	Holmes, Isham Earl Hunt, Robert Clarence B.S. 1942, Mount St. Mary's College	Mo. D.C.
Blount, Jasper Monroe, Jr. B.S. 1942, University of Mississippi	Miss.	Johanson, Donald Arthur Joliet, John Dueber	Wis. Ohio
Cajigas, Tomas Robert Carter, John Paul (With distinction)	D.C.	Kowac, Coleman William Kowalowski, Edward Joseph	Pa. Pa.
A.B. 1943, The George Washington University	D.C.	Kurland, Walter (With distinction)	D.C.
Casey, Ernest Raymond, Jr. B.S. 1944, University of Wyoming	Wyo.	B.S. 1942, The George Washington University	
Conklin, Courten Baxter, Jr. A.B. 1942, Middlebury College	D.C.	Lando, Lester B.S. 1942, University of Michigan	N.Y.
Cooper, Irving S. (With distinction)	D.C.	Littleton, Louisa Chandler A.B. 1939, Emory and Henry College	Va.
A.B. 1943, The George Washington University		Lowe, Waynard Wilson B.S. 1942, University of Idaho	Md.
Crimmond, Louis Anthony B.S. 1941, Mount St. Mary's College	D.C.	Martel, Stuart H. McKibben, Ernest Collette, Jr.	Wash. Wash.
Davis, Harold Arthur A.B. 1941, The George Washington University	D.C.	B.S. 1942, Washington State College	Calif.
Derouin, Ruth Elizabeth A.B. 1942, Mount Holyoke College	D.C.	B.S. 1942, University of Notre Dame	Calif.
Doland, Alger Burr Dulin, Samuel Nathan, Jr. B.S. 1942, University of North Carolina	N.J. N.C.	B.S. 1942, University of Arizona	Pa.
Eckdahl, Robert Wilson Ellsworth, Homer Smith B.S. 1942, University of Arizona	Wash. Ariz.	Merrill, Lowell Garr A.B. 1942, Stanford University	Idaho
Farrell, Joseph Peter Geiger, Jason A.B. 1941, The George Washington University	Ore. D.C.	Miller, Max Stephen A.B. 1943, Fresno State College	Calif.
Greaves, Howard P. B.S. in Pharm. 1942, University of Idaho	D.C.	Miller, Spencer Kelsey A.B. 1942, Miami University	Conn.
Gunning, John Emmett Gyarfas, William James A.B. 1942, University of Kansas	Idaho	Montgomery, Robert Rice (With distinction)	D.C.
Hardy, Frank McNairy, Jr. Harris, Lester Friedrich Hartscock, Frederick Burgess	Calif. Kans. Wash. D.C.	Nessell, William Edward A.B. 1942, The George Washington University	D.C.
		Olshaker, Bennett A.B. 1941, The George Washington University	D.C.
		Parrish, Alvin Edward (With distinction)	D.C.
		Patterson, H. Eugene H.	Canada
		Prather, Charles DeVault, Jr.	D.C.
		Price, John Willington	D.C.

\* In order to meet legal requirements, this degree, recognized at this time was conferred June 7.

Rose, Jerome Victor	D.C.	Walker, Clifford Layton	Calif.
Schoene, Fred C.	Wis.	Wechsler, Herbert Milton	D.C.
Shaw, Frances Page	Miss.	A.B. 1943, The George Washington University	
A.B. 1942, University of Mississippi		Wilson, Thomas Moser	D.C.
Smith, Charles Reed	D.C.	Wood, Clayton Edward	D.C.
Stone, Thomas Edward	D.C.	A.B. 1942, American University	
A.B. 1942, The George Washington University		Yates, Richard Anthony	Md.
Stroup, Matthew A., Jr.	N.C.	Yowell, William Bruce, Jr.	D.C.
A.B. 1930, University of North Carolina		(With distinction)	
Swain, Garrett Michael	Md.	B.S. 1942, University of Maryland	
Sweet, Jack Eugene	Mo.	Zimmerman, Lorenz Eugene	D.C.
Timberlake, Philip Franklin	Calif.	(With distinction)	
A.B. 1942, Whittier College		A.B. 1941, The George Washington University	
Towey, Shirley Catherine	N.J.		
Vargas, Lester Lambert	R.I.		
(With distinction)			
A.B. 1943, Brown University			

## FEBRUARY 22, 1946\*

Adams, Samuel Webster	D.C.	Goldstein, Norman Philip	N.Y.
A.B. 1943, The George Washington University		(With distinction)	
Andresen, Norman Peter	Calif.	A.B. 1941, New York University	
A.B. 1943, Stanford University		A.M. 1942, The George Washington University	
Baker, Charles Paul	N.Y.	González, Rodolfo Manuel	Calif.
A.B. 1940, University of Michigan		A.B. 1942, University of California at Los Angeles	
Beck, Robert Charles	Ariz.	Hamilton, Paul Key, Jr.	Ala.
Berte, Stephen Joseph	N.Y.	B.S. 1942, Birmingham Southern College	
A.B. 1943, Duke University		Hawkins, Chief Fletcher	Calif.
Blair, Edwin	N.Y.	Hendricks, Franklin D.	Utah
(With distinction)		B.S. 1939, Utah State Agricultural College	
A.B. 1943, The George Washington University		Hill, Edward Crane	Idaho
Blanchard, Cyrus Lloyd	Mass.	(With distinction)	
A.B. 1943, Clark University		Hoffman, Richard Franklin	Calif.
Bohrer, Charles Arnold	Mo.	A.B. 1943, Fresno State College	
Boyd, William Dunbar	D.C.	Hopkins, George Jerome	Minn.
A.B. 1943, The George Washington University		A.B. 1945, The George Washington University	
Brownlee, Harrison James	N.Y.	Irey, Robert Blair	D.C.
A.B. 1942, Houghton College		Janis, Leo B.	Ohio
Cerra Quiñones, José	P.R.	A.B. 1943, Ohio State University	
B.S. 1942, University of Puerto Rico		Johan, Morton	D.C.
Chapman, John Darrington	Miss.	A.B. 1943, The George Washington University	
Christoffersen, Olaf Holman	Wash.	Johnson, Linwood H., Jr.	R.I.
Cook, Anne Houston Rush	Pa.	A.B. 1943, Brown University	
A.B. 1938, Vassar College		Johnson, William H.	Va.
Crossland, Clem C., Jr.	D.C.	A.B. 1943, The George Washington University	
Dayton, Glenn Orville, Jr.	Calif.	Kartus, Beatrice June	D.C.
Depew, Harry Walker	Calif.	A.B. 1943, The George Washington University	
A.B. 1941, University of California		King, Donald Perry	Ind.
Elliott, John Monet	Calif.	A.B. 1943, Indiana University	
(With distinction)		Lane, Walter Harold, Jr.	Va.
A.B. 1942, Stanford University		A.B. 1943, The George Washington University	
Featherston, John Smith	Miss.	Levin, Floyd Dale	Wash.
B.S. 1944, University of Mississippi		B.S. 1942, University of Washington	
Frasqueri-Toste, Eduardo Rafael	P.R.	Livingston, Harold Charles	N.Y.
Frazier, Donald Benjamin	D.C.	Livingston, Samuel	N.Y.
A.B. 1943, The George Washington University		Lobb, Allan Wilbur	Wash.
Friedrich, Frederick Arthur	Ohio		
A.B. 1943, Youngstown College			
Gaston, Charles William	Ala.		
A.B. 1943, University of Alabama			
Gee, George Leonard, Jr.	D.C.		
A.B. 1943, The George Washington University			

\* In order to meet legal requirements, this degree, recognized at this time was conferred March 1.

# *The School of Medicine*

61

Loggins, James Elwyn, Jr. A.B. 1943, The George Washington University	D.C.	Pollock, John Rogers, Jr. Preisser, Warren Godfrey A.B. 1943, The George Washington University	Okla. D.C.
Longley, Jay Rhodes A.B. 1943, Carleton College	Wis.	Randel, Hugh Wayne B.S. 1942, University of Oklahoma	Okla.
Lyons, David Robert A.B. 1943, The George Washington University	N.J.	Rankin, Joseph Eugene B.S. 1942, Catholic University of America	Md.
Manthey, Charles Edwin Mattingly, Robert Andrew, Jr. A.B. 1943, The George Washington University	Ohio D.C.	Rea, Edward L. A.B. 1942, University of California	Calif.
McCarthy, Robert Joseph (With distinction) A.B. 1943, The George Washington University	N.J.	Reid, Spencer B. Rook, Rex Louis Seiscent, Verdi Italo A.B. 1942, University of Alabama	Calif. Okla. D.C.
McKinney, Worthy William Mead, Charles Alexander, Jr. (With distinction) A.B. 1943, The George Washington University	Okla. D.C.	Siddoway, John Lewis, Jr. Slater, Ronald Ballard, Jr. A.B. 1942, University of California	Utah Calif.
Mears, Thomas Wakefield B.S. 1943, University of Alabama	Ala.	Smith, Julian Lyle Snow, Margaret Throckmorton A.B. 1938, Iowa Wesleyan College	Calif. Iowa
Miller, Frank L. Montgomery, Robert Henry B.S. 1942, University of Dubuque	D.C. D.C.	Sowers, James Adam A.B. 1944, Fresno State College	Calif.
Morgan, James Martin, Jr. A.B. 1943, University of Alabama	Ala.	Sowers, Muriel Schatz A.B. 1944, The George Washington University	Calif.
Naiman, Robert Morton A.B. 1943, The George Washington University	D.C.	Spies, Harold W. B.S. 1942, Mount Union College	Ohio
Neilson, Robert Oliver (With distinction)	Calif.	Stoller, Raymond A.B. 1944, The George Washington University	D.C.
Newell, Charles Conklin	Ohio	Strout, Warren Greenleaf A.B. 1943, University of Maine	Me.
Norris, Donald A. A.B. 1942, University of Rochester	N.Y.	Treichler, Howard Pettit White, Philip Taylor (With distinction)	D.C. Ohio
Pallotta, Elizabeth Mary Paul, Eudell George	Vt.	Zimmerman, Joe Adlai A.B. 1942, Westminster College	Mo.
Perkins, John Walter	Ind. D.C.		



SUMMER TERM 1945  
ACADEMIC YEAR 1945-46

Ackerman, Joseph Laurence (II)  
 Adams, Samuel Webster (IV)  
 A.B. 1941, The George Washington  
 University  
 Alban, Emil John, Jr. (III)  
 Alterman, Seymour Lewis (III)  
 A.B. 1944, The George Washington  
 University  
 Anderson, Donald Hood (III)  
 B.S. 1943, Birmingham-Southern  
 College  
 Andresen, Norman Peter (IV)  
 A.B. 1943, Stanford University  
 Archer, Benjamin Lester (II)  
 Arnason, Kristi (II)  
 B.S. 1944, University of Washington  
 Arndt, Malcolp Hill (II)

Bachman, Frederick Charles (III)  
Baird, Glenn Dean (I)  
    B.S. 1944, University of Oregon  
Baird, Robert Evanston (III)  
Baldwin, Alan Lee (I)  
Ballard, Edwin Robert (II)  
    A.B. 1943, Whitman College  
Ballinger, Edwin Ray (III)  
    A.B. 1943, Maryville College  
Band, Philip Theodore (I)  
    A.B. 1945, The George Washington  
    University  
Band, Raymond Isaac (II)  
Barker, Charles Paul (IV)  
    A.B. 1940, University of Michigan  
Barss, Theodore Parker (III)  
Bateman, Joseph Robert III (III)  
Beck, Robert Charles (IV)  
Beck, Walter Charles (III)  
Belton, Robert R., (II)  
Berkow, Morton Donald (I)  
Berry, James Frederick (III)  
    A.B. 1943, College of William and  
    Mary  
Berté, Stephen Joseph (IV)  
    A.B. 1943, Duke University  
Biery, Chester Donald (III)  
    B.S. 1943, Mount Union College  
Bigge, Erzell Venus (III)  
    B.S. 1944, The George Washington  
    University  
Binder, Samuel Sholom (I)  
    A.B. 1945, Marietta College  
Blair, Edwin (IV)  
    A.B. 1943, The George Washington  
    University  
Blanchard, Cyrus Lloyd (IV)  
    A.B. 1943, Clark University

Del. D.C.	Bohrer, Charles A. (IV) Boisclair, Thomas George (III) A.B. 1942, University of Wisconsin	Mo. Wis.
Conn. N.Y.	Boteler, Marcia (III) Bowie, David Irving (I) Bryce, Thompson Harnes (I) Boyd, William D. (IV) A.B. 1942, The George Washington University	Md. D.C. Ill. D.C.
Ala.	Brady, Luther W., Jr. (II) Branit, Joseph Thomas, Jr. (I) Broadstreet, Henry Thomas, Jr. (I) B.S. 1945, University of Florida	Md. Ill. Fla.
Calif.	Br. cl. Howard Thomas (III) B.S. 1943, The George Washington University	D.C.
Md. Wash.	Brockbank, Wallace Reed (II) Brockbank, Wells Evans (II)	Utah Utah
Ga.	Brownlee, Harrison James (IV) A.B. 1942, Houghton College	N.Y.
Pa.	Buckler, Arthur Stanley (II) Burns, James Patrick, Jr. (I)	N.J. D.C.

Wash.	Campbell, Charles John (II)	Md.
	Cerra-Quinones, José (IV)	P.R.
D.C.	B.S. 1942, University of Puerto Rico	
	Chapman, James Eliot (I)	Wis.
D.C.	Chapman, John Darrington (IV)	Miss.
	Chu, William (III)	D.C.
	A.B. 1944, American University	
D.C.	Chesser, Marion Louise (III)	D.C.
N.Y.	A.B. 1944, The George Washington University	
D.C.	Choisser, Robert Voltaire (III)	D.C.
D.C.	Christofferson, Olaf Holman (IV)	Wash.
Ariz.	Clark, Homer Howe (II)	Utah
Va.	B.S. 1941, Brigham Young University	
Oreg.	Cluff, Leighton Eggertsen (II)	Utah
D.C.	Cohen, June Rae (I)	D.C.
Va.	B.S. 1945, The George Washington University	
	Collins, George Harwood (III)	Colo.
N.Y.	Comer, Walter Horace (III)	Canada
	Cook, Anne Rush (IV)	Va.
Ohio	Cook, Charles Barrie (II)	Va.
	Cooper, Ruth Thelma (I)	D.C.
D.C.	B.S. 1945, The George Washington University	
	Cooper, William Hurlbert (I)	Ohio
Pa.	Cooperman, Bernard Robert (I)	D.C.
	Crisp, William Earl (I)	Ohio
N.Y.	Crossland, Clem C., Jr. (IV)	D.C.
	Cullina, Joseph Charles (II)	Conn.
	A.B. 1944, Catholic University of America	
Mass.	Curtis, James LeRoy (I)	Wis.



## D

Daines, Newell George, Jr. (II)  
 Daisley, Gordon Walford, Jr. (II)  
 Daly, Richard Francis (II)  
 Dayton, Glenn Orville (IV)  
 Delashmuth, Robert Eugene (I)  
 Depew, Harry W. (IV)  
 A.B. 1941, University of California  
 at Los Angeles  
 Devine, Charles Joseph, Jr. (III)  
 A.B. 1943, Washington and Lee  
 University  
 Dicksa, Alvin Paul (III)  
 Dicksa, Carl Adam (III)  
 Dietler, Patrick Chester, Jr. (II)  
 Dillon, John Francis (III)  
 B.S. 1943, Catholic University of  
 America  
 Ditzler, Marshall Ernest (I)  
 B.S. 1935, Lebanon Valley College  
 Dixon, William Martin (I)  
 Doady, Thomas Edward (II)  
 A.B. 1943, Stanford University  
 Droulard, Kenneth Earl (I)  
 Dunlap, Cecil N. (I)  
 Dunbar, Anne Cameron (I)  
 A.B. 1942, The George Washington  
 University  
 A.M. 1944, Colorado College

Utah  
 Md.  
 N.Y.  
 Calif.  
 Ohio  
 Calif.

Va.

Calif.  
 Calif.  
 Calif.  
 D.C.

Pa.

D.C.  
 Calif.

Mich.  
 Ohio  
 Conn.

## E

Early, Joseph Howard, Jr. (II)  
 Ebnother, Carl Lutz (II)  
 Edgren, Claude Gordon (II)  
 Edwards, Alfred (I)  
 A.B. 1945, University of California  
 at Los Angeles  
 Edwards, Larry Edwin (III)  
 Elliott, John Monet (IV)  
 A.B. 1942, Stanford University  
 Elliott, Louise Ofedal (I)  
 A.B. 1939, Wellesley College  
 English, Harold Medium (I)  
 Esch, Victor Henry (II)  
 Essman, Leonard Joseph (I)  
 Evans, Bruce Andrew (III)  
 B.S. 1913, University of Idaho  
 Evans, Charles Dudley (II)  
 B.S. 1945, Mount Union College

Va.  
 Calif.  
 Wash.  
 Calif.

Miss.  
 Calif.

Md.

Md.  
 D.C.  
 N.Y.  
 Idaho

W.Va.

## F

Featherston, John Smith (IV)  
 B.S. 1943, University of Mississippi  
 Fedt, Donald Nels (III)  
 B.S. 1945, University of South  
 Dakota  
 Ferris, Chalmers Williams (III)  
 B.S. 1943, Mount Union College  
 Forarty, Thomas Patrick (II)  
 Foster, Robert Russell (I)  
 Fowler, Delora Leone (III)  
 Frasqueri, Eduardo Rafael (IV)  
 Frazier, Donald B. (IV)  
 A.B. 1941, The George Washington  
 University  
 Friedrich, Fredrick Arthur (IV)  
 A.B. 1943, Youngstown College

Miss.  
 S.D.  
 Ohio  
 D.C.  
 Ohio  
 D.C.  
 P.R.  
 D.C.

Ohio

## G

Gaston, Charles William (IV)  
 A.B. 1943, University of Alabama

Ala.

Gee, George Leonard, Jr. (IV)

A.B. 1942, The George Washington  
 University

Iowa

Glazener, Fred S. (III)

Glew, Donald Henry, Jr. (II)

N.C.

B.S. 1945, Yale University

D.C.

Glower, Sarah Elizabeth (II)

Goddard, James Lee (I)

Va.

Goldstein, Norman Philip (IV)

Ohio

A.B. 1941, New York University

N.Y.

A.M. 1942, The George Washington  
 University

González, Rodolfo Manuel (IV)

Calif.

A.B. 1942, University of California  
 at Los Angeles

Good, Frederick Dale (II)

Ohio

A.B. 1944, Oberlin University

Green, Lester Bertleson (III)

Calif.

B.S. 1943, University of Idaho

Greenlee, Robert Leonard (I)

Ind.

Greaves, Harley, Jr. (III)

Idaho

## H

Hall, Wilson Luther (III)

Ohio

A.B. 1941, College of Wooster

Halliday, William Russ, Jr. (II)

D.C.

Hamilton, Paul Key (IV)

Ala.

B.S. 1942, Birmingham-Southern  
 College

Hanowell, Ernest Goddin (II)

D.C.

Harmon, Ernest Emery (III)

Md.

Harrison, Bernard A. (II)

D.C.

Hashim, John Sarkise (II)

Mass.

Hawkins, Chas. Fletcher (IV)

Calif.

Haynes, Aubrey Franklin (I)

Tenn.

Hecht, Moses Bernard (III)

N.Y.

A.B. 1944, The George Washington  
 University

Hendricks, Franklin D. (IV)

Utah

B.S. 1939, Utah State Agricultural  
 College

Hightower, Harry Gray (II)

D.C.

A.B. 1942, University of Oklahoma

Hill, Edward Crane (IV)

Idaho

Hines, Robert Haynam (I)

Ohio

Hodges, Robert M., Jr. (III)

Calif.

A.B. 1943, University of California  
 at Los Angeles

Hoffman, Richard Frank (IV)

Calif.

A.B. 1943, Fresno Business College

Holeman, Richard Worth (II)

N.J.

A.B. 1945, Antioch College

Holliester, James Kleiser (II)

Calif.

Hopkins, George Jerome (IV)

Va.

A.B. 1945, The George Washington  
 University

Houts, Richard Edward (III)

Calif.

A.B. 1943, University of Southern  
 California

Howard, Quentin Eugene (III)

Idaho

Howie, Donald Lynk (I)

Mass.

## I

Irey, Robert Blair (IV)

D.C.

Isreal, Peter Roy (II)

D.C.

## J

Jacobson, Marshall H. (II)

Va.

Jagers, Donald Bruce (I)

D.C.

Janis, Leo B. (IV)

D.C.

A.B. 1942, Ohio State University

Jenkins, Robert Lawrence, Jr. (I)	Pa.	Mahaney, Thomas Preston (I)	Mich.
Jenkins, Thomas Rodgers, Jr. (II)	Md.	Mankin, Haven Winslow (III)	Md.
B.S. 1944, Franklin and Marshall College		A.B. 1943, Washington and Lee University	
Johan, Morton (IV)	D.C.	Mann, James Packard (III)	D.C.
A.B. 1944, The George Washington University		Mann, Shirley Louise (I)	Md.
Johnson, Linwood Hill (IV)	R.I.	Manthey, Charles Edwin (IV)	Ohio
A.B. 1943, Brown University		Marano, Matthew J. (II)	N.J.
Johnson, William H. (IV)	D.C.	Martin, Robert Edward (III)	Pa.
A.B. 1943, The George Washington University		Mattingly, Robert Andrew, Jr. (IV)	D.C.
Johnson, J. Monte (III)	D.C.	A.B. 1944, The George Washington University	
A.B. 1943, Stanford University		McAvoy, William Bernard (III)	Maine
<b>K</b>		A.B. 1944, The George Washington University	
Kartus, Beatrice June (IV)	Md.	McCarthy, Robert Joseph (IV)	N.J.
A.B. 1943, The George Washington University		A.B. 1943, The George Washington University	
Kaufman, Paul (III)	Va.	McFall, Creed Flannary (II)	D.C.
A.B. 1943, New York University		McGarry, Edward Clifford (III)	D.C.
Kennelly, John McRae (III)	Oreg.	A.B. 1945, The George Washington University	
Kelser, George Archibald, Jr. (I)	Md.	McKinney, Worth William (IV)	Okla.
Kester, Beryl Conklin (II)	D.C.	McShane, William Robert (III)	Pa.
Kieherer, Harry Jay (II)	Ill.	B.S. 1944, Haverford College	
Kilpatrick, John Taylor (I)	Okla.	Mead, Charles Alexander, Jr. (IV)	D.C.
B.S. 1945, University of Oklahoma		A.B. 1943, The George Washington University	
Kimball, Howard W. (II)	D.C.	Mears, Thomas Wakefield (IV)	Ala.
King, Donald Perry (IV)	Ind.	B.S. 1943, University of Alabama	
A.B. 1943, Indiana University		Melewick, Frank Vincent (I)	N.Y.
King, William Bernard (I)	Ind.	A.B. 1940, Union College, New York	
Kingman, Allen Frederick, Jr. (III)	D.C.	Michael, Arnold Hugh (I)	D.C.
A.B. 1944, The George Washington University		Michols, Raymond Martin (I)	Wis.
Kiracofe, Arthur Hiram (I)	Md.	Milan, Ramon Arturo (II)	P.R.
A.B. 1943, Franklin and Marshall College		Miller, Jack William (III)	Calif.
A.M. 1944, Columbia University		A.B. 1945, Stanford University	
Kischak, Joseph Thomas (II)	Wash.	Miller, Frank Lewis (IV)	D.C.
Klopfenstein, Karl Henry (III)	D.C.	Miller, Frank Nelson, Jr. (II)	D.C.
A.B. 1943, University of Washington		B.S. 1943, The George Washington University	
Knaver, William Jerome (II)	Fla.	Miller, Ray Lambert (I)	D.C.
<b>L</b>		B.S. 1936, Northwest Missouri State Teacher's College	
Lahti, Carl Robert (I)	Mich.	Miller, Robert Lawrence (III)	N.H.
Lane, John Goethe (I)	Fla.	B.S. 1941, Rutgers University	
Lane, Walter Harold, Jr. (IV)	Va.	Mills, Stephen Roy, Jr. (III)	R.I.
A.B. 1943, The George Washington University		Montgomery, Robert Henry (IV)	D.C.
Langdell, Robert Dana (II)	Calif.	B.S. 1942, University of Dubuque	
Lash, Robert Frederick (I)	Ill.	Morgan, James Martin (IV)	Ala.
Lee, Gilbert Stanley (I)	Oreg.	A.B. 1943, University of Alabama	
A.B. 1941, Stanford University		Morrow, Gay (III)	D.C.
Lee, Robert Yoon Sung (II)	Hawaii	A.B. 1943, Lynchburg College	
A.B. 1944, Cornell University		Myers, Helen Sherman (III)	D.C.
Levin, Floyd Dale (IV)	Wash.	B.S. 1940, The George Washington University	
B.S. 1942, University of Washington		Myers, Richard Clayton (III)	D.C.
Livingston, Harold Charles (IV)	N.Y.	A.B. 1945, Princeton University	
Livingston, Samuel (IV)	N.Y.	<b>N</b>	
Lobb, Allan Wilbur (IV)	Wash.	Nadarzynski, Raymond Francis (I)	Ill.
Loggins, James Elwyn, Jr. (IV)	D.C.	Naiman, Robert Morton (IV)	D.C.
A.B. 1943, The George Washington University		A.B. 1943, The George Washington University	
Longley, Jay Rhodes (IV)	Wis.	Neilson, Robert Oliver (IV)	Calif.
A.B. 1942, Carleton College		Nelson, Bertie (II)	D.C.
Lundy, LeRoy Fred (II)	Wash.	Newell, Charles Conklin (IV)	Ohio
Lyons, Robert Timothy (III)	Conn.	Niswonger, Joseph Kingdon (III)	Ohio
<b>M</b>		A.B. 1944, The George Washington University	
MacLean, Marion Elizabeth (I)	D.C.	Norris, Donald Arthur (IV)	N.Y.
B.S. 1944, The George Washington University		A.B. 1942, University of Rochester	
Mahaffy, Steve Renfrew (III)	Calif.	Nuttall, Robert Bostick (II)	Va.

## O

O'Leary, Mary Jean (I) D.C.  
 O'Neill, Edward (III) P.R.  
 B.S. 1945, University of Puerto Rico  
 Orsinger, William Hubert (III) D.C.  
 B.S. 1943, Catholic University of America  
 Ostrow, Bernard Howard (II) D.C.  
 A.B. 1944, Miami University  
 Overman, John Reagan (I) Ind.

## P

Pallotta, Elizabeth Mary (IV) Utah  
 Paul, Eudell George (IV) Ind.  
 A.B. 1944, University of Illinois  
 Pavluk, Walter (III) Ohio  
 B.S. 1943, Western Reserve University  
 Peery, James Brown (II) Mich.  
 Perkins, John W. (IV) D.C.  
 Pitner, Robert James (I) Miss.  
 Plunkett, Edmund Robert (II) Md.  
 B.S. 1944, College of William and Mary  
 Pollack, Jerome Leo (I) D.C.  
 B.S. 1945, Franklin and Marshall College  
 Pollack, John Rogers (I) Okla.  
 Porter, Melvin A. (I) Kans.  
 Post, Lawrence A. (II) Wis.  
 B.S. 1943, University of Wisconsin  
 Preiser, Warren G. (IV) D.C.  
 A.B. 1945, The George Washington University  
 Presto, Ernest Carl (I) N.Y.  
 Prichard, Robert Williams (II) N.J.  
 Prichard, John E. (III) D.C.

## Q

Quigley, Thomas A. (II) Miss.  
 A.B. 1942, University of Mississippi

## R

Randel, Hugh Wayne (IV) Okla.  
 B.S. 1942, University of Oklahoma  
 Rankin, Joseph Eugene (IV) Md.  
 B.S. 1942, Catholic University of America  
 Rawlings, Maurice Scaggs (III) Md.  
 A.B. 1944, The George Washington University  
 Raymond, Mary Jane (I) D.C.  
 B.S. 1945, College of William and Mary  
 Rea, Edward L. (IV) Calif.  
 A.B. 1942, University of California  
 Reid, Spencer Beal (IV) Calif.  
 Robertson, John A. (I) Calif.  
 Roe, Chester Thomas, Jr. (I) Mich.  
 Rohn, Robert (II) Calif.  
 Rook, Rex Louis (IV) Okla.

## S

St. John, Nicholas E. (II) Conn.  
 Ph.B. 1931, Yale University  
 J.D. 1935, New York University  
 Sanchez, Luis F. (II) P.R.  
 B.S. 1943, University of Puerto Rico  
 Sargent James Allen (III) Calif.  
 Schneider, Bertram Alexander (III) D.C.

Seiscent, Verdi Italo (IV) D.C.  
 A.B. 1942, University of Alabama  
 Segal, Jack Phillip (II) D.C.  
 Shannah, Kathleen Eva (II) Mich.  
 B.S. 1941, University of Maryland  
 Shields, John Joseph (I) Pa.  
 Shillauer, Frederick William (III) Md.  
 Shumaker, Eliza Cochran (II) D.C.  
 A.B. 1943, Smith College  
 Siddoway, John Lewis, Jr. (IV) Utah  
 Siggers, Richard Lawrence (I) D.C.  
 Silva, Jose Luis (III) Cuba  
 B.S. 1944, Villanova College  
 Sisen, Maurice Arthur (III) D.C.  
 A.B. 1944, The George Washington University  
 Siss, Richard Howard (I) N.J.  
 Sises, James Glover (III) Va.  
 Slater, Ronald Ballard, Jr. (IV) Calif.  
 A.B. 1942, University of California  
 Smith, Julian Lyle (I) Calif.  
 Snow, Margaret Ann Throckmorton (IV) D.C.  
 A.B. 1937, Iowa Wesleyan College  
 Solomon, Robert Joseph (I) Mich.  
 Sowers, James Adam (IV) Calif.  
 A.B. 1943, Fresno State Teachers College  
 Sowers, Muriel Schatz (IV) D.C.  
 A.B. 1943, The George Washington University  
 Soyester, Hale Bryan (II) Calif.  
 Speaker, Richard B. (II) D.C.  
 Spencer, Orson Burnham (III) Utah  
 Spies, Harold W. (IV) Md.  
 B.S. 1942, Mount Union College  
 Squires, Charles Lloyd (III) Pa.  
 Stephens, Wade Nashatt (III) D.C.  
 B.Mus. 1929, M.Mus. 1932, Northwestern University  
 Stoller, Raymond (IV) D.C.  
 A.B. 1943, The George Washington University  
 Stone, William Leete III (III) Va.  
 Stotler, Robert Cresap (III) Wash.  
 B.S. 1945, Stanford University  
 Stout, Henry Wallace (I) D.C.  
 Strong, William Ronald (III) D.C.  
 Stout, Warren Greenleaf (IV) Maine  
 A.B. 1943, University of Maine  
 Swenson, Carl Robert (I) Colo.  
 Syme, Robert Haldane (III) Wyo.  
 B.S. 1945, University of Wyoming

## T

Taylor, Clayton B. (II) Calif.  
 Thaw, Benjamin Dows (II) D.C.  
 Thierman, Sheppard Carl (I) N.Y.  
 Thomas, John Benton (II) Del.  
 Thomson, Talmage Maiben (II) D.C.  
 Thrall, Howard Curt (I) Ind.  
 Throckmorton, Neville Inskip, Jr. (II) Calif.  
 Tidler, Harold Stanley (I) Md.  
 Tomlinson, William Barrington (I) N.J.  
 Treichler, Howard Pettit (IV) N.Y.  
 Truesdell, Duane Earl (I) Wash.  
 B.S. 1943, University of Washington  
 Tway, Lawrence Edward (I) Calif.

## V

Van Atta, Glen Benjamin (I) Ohio  
 Van Gelderen, Bertha Elizabeth (I) D.C.  
 Vernier, Vernon George (I) Ill.



## W

Wallis, James Frederick (I)		Williams, Gerald Albert (I)	Iowa
B.S. 1942, Wayne University	Mich.	B.S. 1945, South Dakota State College of Agriculture and Mechanic Arts	
Warner, Glenn Allyn (II)	Wash.	Woo, Joseph Clarence (II)	Calif.
Waxberg, Joseph D. (II)	N.Y.	Wood, Edwin Charles (II)	D.C.
Weber, Charles John, Jr. (II)	Ga.		
Wehr, Maurice Burton (III)	Md.	Y	
Wertkin, Edward (II)	Pa.	Yetman, Thomas William (I)	R.I.
B.S. 1948, University of Pittsburgh			
Westfall, John Finley (III)	D.C.	Z	
Whelton, Richard Lee (III)	D.C.	Zagier, Helene DeBoey (III)	N.Y.
B.S. 1944, University of Maryland		Zimmerman, Joe Adlai (IV)	Mo.
White, Philip Taylor (IV)	Ohio	A.B. 1942, Westminster College	
Whitnover, Robert Ellwood (II)	Pa.	Zitani, Alfred Marius (I)	D.C.
Whitnack, John Doyle (I)	Minn.		
Whyte, Rosalie Ann (I)	D.C.		



## SUMMARIES OF REGISTRATION 1945-46

### NUMBER OF REGISTRATIONS

Class entering September 1945.....	83
Class entering September 1944.....	79
Class entering November 1943.....	80
Class entering March 1943.....	81
Total.....	323

### GEOGRAPHICAL DISTRIBUTION OF STUDENTS

Alabama .....	5	New Jersey .....	7
Arizona .....	1	New York .....	18
California .....	34	North Carolina .....	1
Colorado .....	2	Ohio .....	18
Connecticut .....	5	Oklahoma .....	5
Delaware .....	2	Oregon .....	3
District of Columbia.....	88	Pennsylvania .....	10
Florida .....	3	Rhode Island .....	3
Georgia .....	2	South Dakota .....	1
Idaho .....	4	Tennessee .....	1
Illinois .....	7	Utah .....	9
Indiana .....	6	Virginia .....	14
Iowa .....	2	Washington .....	12
Kansas .....	1	West Virginia.....	1
Maine .....	2	Wisconsin .....	6
Maryland .....	21	Wyoming .....	1
Massachusetts .....	3	Canada .....	1
Michigan .....	8	Cuba .....	1
Mississippi .....	5	Puerto Rico .....	5
Missouri .....	2	Territory of Hawaii.....	1
Minnesota .....	1		
New Hampshire .....	1		
		Total.....	323

### GRADUATES OF COLLEGES REGISTERED IN THE SCHOOL OF MEDICINE

Alabama, University of.....	4	Clark University .....	1
American University .....	1	Colorado College .....	1
Antioch College .....	1	Columbia University .....	1
Birmingham-Southern University .	2	Cornell University .....	1
Brigham Young University .....	1	Dubuque, University of .....	1
Brown University .....	1	Duke University .....	1
California, University of .....	2	Florida, University of .....	1
California at Los Angeles, Uni-		Franklin and Marshall College ..	3
versity of .....	4	Fresno State College .....	2
Carleton College .....	1	George Washington University...	37
Catholic University of America..	4	Haverford College .....	1

Houghton College .....	1	Rutgers University .....	1
Idaho, University of .....	2	Smith College .....	1
Illinois, University of .....	1	South Dakota, University of ...	1
Indiana University .....	1	South Dakota State College of	
Iowa Wesleyan College .....	1	Agriculture and Mechanic Arts	1
Lebanon Valley College .....	1	Southern California, University of	1
Lynchburg College .....	1	Stanford University .....	7
Maine, University of .....	1	Union College, New York .....	1
Marietta College .....	1	Utah State Agricultural College..	1
Maryland, University of .....	2	Villanova College .....	1
Maryville College .....	1	Washington, University of .....	4
Miami University .....	1	Washington and Lee University..	2
Michigan, University of .....	1	Wayne University .....	1
Mississippi, University of .....	2	Wellesley College .....	1
Mount Union College .....	4	Western Reserve University .....	1
New York University .....	3	Westminster College .....	1
Northwestern University .....	1	Whitman College .....	1
Northwest Missouri State Teachers		William and Mary, College of ...	3
College .....	1	Wisconsin, University of .....	2
Ohio State University .....	1	Wooster, College of .....	1
Oklahoma, University of .....	3	Wyoming, University of .....	1
Oregon, University of .....	1	Yale University .....	2
Otterbein University .....	1	Youngstown College .....	1
Pittsburgh, University of .....	1		
Princeton University .....	1	Number of college graduates. 141	
Puerto Rico, University of .....	3	Number of colleges repre-	
Rochester, University of .....	1	sented .....	69

THE SCHOOL OF EDUCATION

1946-47





THE  
GEORGE  
WASHINGTON  
UNIVERSITY

BULLETIN

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VOL. XLV

No. 4

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THE SCHOOL OF EDUCATION

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WASHINGTON, D. C.

PUBLISHED IN JUNE  
MCMXLVI

BY THE UNIVERSITY

THE  
HISTORY OF  
THE  
CITY OF  
NEW-YORK  
FROM  
ITS FIRST SETTLEMENT  
TO THE PRESENT TIME  
IN TWO VOLUMES  
BY  
JOHN B. HENRY  
NEW-YORK  
PUBLISHED BY  
J. B. HENRY  
1851

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# CALENDAR OF THE SCHOOL OF EDUCATION

1946-47

Date	Day	Occasion
1946		
FALL TERM:		
Sept. 24....	Tuesday .....	Examinations for students who wish to qualify for advanced courses
Sept. 25 and 26 .....	Wednesday and Thursday .....	Registration of students registered winter or summer term, 1946
Sept. 27....	Friday .....	Registration of new students
Sept. 28....	Saturday .....	General registration
Sept. 30....	Monday .....	Academic year begins
Oct. 5.....	Saturday .....	Last day for registration for credit for the fall term
Oct. 12....	Saturday .....	Last day on which candidates may file thesis subjects for the Master's degree conferred in February
Oct. 26....	Saturday .....	Last day on which candidates may file dissertation subjects for the degree of Doctor of Education to be conferred the following May
Nov. 2.....	Saturday .....	Last day on which candidates for the degree of Bachelor of Arts may file plans of non-academic activities
Nov. 28-30.	Thursday through Saturday .....	Thanksgiving Recess
Dec. 21....	Saturday .....	Last day on which candidates for the degree of Doctor of Education may apply for January comprehensive examinations
Dec. 23- Jan. 1....	Monday through Wednesday .....	Christmas Recess
1947		
Jan. 2.....	Thursday .....	Classes resume
		Last day on which candidates may file applications for degrees to be conferred in February
		Last day for receiving dissertations of candidates for the degree of Doctor of Education to be conferred in February
Jan. 4.....	Saturday .....	Comprehensive examinations for candidates for the degree of Doctor of Education



## CALENDAR OF THE SCHOOL OF EDUCATION—Continued

Date	Day	Occasion
Jan. 4.....	Saturday .....	Last day on which candidates for the degree of Master of Arts in Education may apply for January comprehensive examinations
Jan. 16.....	Thursday .....	Last day of classes for the fall term
Jan. 17-25..	Friday through Saturday .....	Fall term examination period
Jan. 18.....	Saturday .....	Comprehensive examinations for candidates for the degree of Master of Arts in Education
Jan. 20.....	Monday .....	Last day for receiving theses of candidates for the Master's degree
WINTER TERM:		
Jan. 27.....	Monday .....	Examinations for students who wish to qualify for advanced courses
Jan. 28.....	Tuesday .....	Registration of new students
Jan. 29 and 30 .....	Wednesday and Thursday .....	Registration of former students
Jan. 31.....	Friday .....	Classes resume for the winter term
Feb. 7.....	Friday .....	Last day for registration for credit for the winter term
Feb. 14.....	Friday .....	Last day on which candidates may file thesis subjects for Master's degree to be conferred in May
Feb. 22.....	Saturday .....	Winter Convocation. Holiday
March 15...	Saturday .....	Last day on which candidates for the degree of Doctor of Education may apply for April comprehensive examinations
April 4 and 5....	Friday and Saturday..	Easter recess
April 12....	Saturday .....	Comprehensive examinations for candidates for the degree of Doctor of Education
April 17....	Thursday .....	Last day for receiving dissertations of candidates for the degree of Doctor of Education to be conferred in May
		Last day on which candidates may file dissertation subjects for the degree of Doctor of Education to be conferred the following February
May 1.....	Thursday .....	Last day on which candidates may file applications for degrees to be conferred in May
May 3.....	Saturday .....	Last day on which candidates for the degree of Master of Arts in Education may apply for May comprehensive examinations

## CALENDAR OF THE SCHOOL OF EDUCATION—Continued

Date	Day	Occasion
May 5.....	Monday .....	Last day for receiving theses of candidates for the Master's degree
May 13....	Tuesday .....	Last day of classes for the winter term
May 14-24..	Wednesday through Saturday .....	Winter term examination period
May 17....	Saturday .....	Comprehensive examinations for candidates for the degree of Master of Arts in Education
May 25....	Sunday .....	Baccalaureate Sermon
May 28....	Wednesday .....	Commencement
SUMMER TERM:		
June 2.....	Monday .....	Registration for the first session of the summer term
June 30....	Monday .....	Registration for the special six-week session of the summer term
July 16....	Wednesday .....	Last day on which candidates for the degree of Master of Arts in Education may apply for July comprehensive examinations
		Last day on which candidates for the degree of Doctor of Education may apply for July comprehensive examinations
July 23.....	Wednesday .....	First summer session ends
July 24.....	Thursday .....	Registration for the second session of the summer term
July 30.....	Wednesday .....	Comprehensive examinations for candidates for the degree of Master of Arts in Education
		Comprehensive examinations for candidates for the degree of Doctor of Education
Aug. 8.....	Friday .....	Special six-week session ends
Aug. 20....	Wednesday .....	Last day on which candidates for the degree of Doctor of Education may apply for September comprehensive examinations
Sept. 3.....	Wednesday .....	Comprehensive examinations for candidates for the degree of Doctor of Education
Sept. 12....	Friday .....	Second summer session ends
Sept. 24-27.	Wednesday through Saturday .....	Registration for the fall term of the academic year 1947-48

## THE BOARD OF TRUSTEES

### THE UNIVERSITY

The Board of Trustees of the University is composed of the President of the University ex officio and the following persons by election:

Robert Vedder Fleming, LL.D., *Chairman*

Henry Parsons Erwin, A.B., *Secretary*

Newell Windom Ellison, A.B., LL.B., *Assistant Secretary*

---

Avery DeLano Andrews, B.S., LL.B.

Clarence Aiken Aspinwall

Lyman James Briggs, Ph.D., Sc.D., D.Eng., LL.D.

John St. Clair Brookes, Jr., A.M., LL.B.

John Henry Cowles, LL.D.

Homer Cummings, Ph.B., LL.B., LL.D., L.H.D.

\*Newell Windom Ellison, A.B., LL.B.

Henry Parsons Erwin, A.B.

Mrs. Joshua Evans, Jr., A.B., Ed.D.

\*George Edgar Fleming, LL.M.

Robert Vedder Fleming, LL.D.

\*Robert Elliott Freer, A.B., LL.M.

\*Thomas Leigh Gatch, Graduate

United States Naval Academy, LL.B., LL.D.

Charles William Gerstenberg, Ph.B., LL.B., J.D.

Charles Carroll Glover, Jr., A.M., LL.B.

Ulysses S. Grant, 3d, B.S., Graduate

United States Engineers' School

Gilbert Grosvenor, A.M., LL.D., Litt.D.

John Edgar Hoover, LL.M., LL.D.

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Mrs. Henry Alvah Strong, LL.D.

Merle Thorpe, A.B.

Walter Rupert Tuckerman, A.B., LL.B.

\*Alexander Wilbourne Weddell, LL.B., Litt.D., LL.D.

Chester Wells, B.S., Graduate

United States Naval War College

Alexander Wetmore, Ph.D., Sc.D.

\*Charles Stanley White, M.D., Sc.D.

Lloyd Bennett Wilson

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\* Nominated by the alumni.

## OFFICERS OF ADMINISTRATION

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Harold Griffith Sutton, M.S., *Director of Admissions*  
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John Russell Mason, B.S. in L.S., A.M., *Librarian; Curator of Art*  
Mitchell Dreese, Ph.D., *Dean of the Summer Sessions; Director of  
Veterans Education*  
Myrna Pauline Sedgwick, A.B., *Administrative Secretary*  
Henry William Herzog, B.S., *Comptroller*  
Burnice Herman Jarman, A.M., Ed.D., *Registrar; Secretary of the  
Faculties; Director of Religious Activities*  
Daniel LeRay Borden, A.M., M.D., *Director of Health Administration*  
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Virginia Randolph Kirkbride, A.M., *Director of Activities for Women*  
Ruth Harriet Atwell, A.M., *Director of Physical Education for Women*  
Alan Thomas Deibert, A.M., *Adviser to Students from Foreign  
Countries*



## THE FACULTY AND STAFF OF INSTRUCTION\*

### THE SCHOOL OF EDUCATION

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James Harold Fox, A.M., Ed.D., *Dean of the School of Education*

---

Henry Grattan Doyle, A.M., *Professor of Romance Languages*  
William Cullen French, Ph.D., *Professor of Education*  
Ruth Harriet Atwell, A.M., *Professor of Physical Education for Women*  
Frank Mark Weida, Ph.D., *Professor of Statistics*  
Mitchell Dreese, Ph.D., *Professor of Educational Psychology*  
Sidney Barlett Hall, A.M., Ed.D., LL.D., *Professor of Education*  
James Harold Fox, A.M., Ed.D., *Professor of Education*  
Thelma Hunt, Ph.D., M.D., *Professor of Psychology*  
Frances Kirkpatrick, A.M., *Professor of Home Economics*  
William Henry Myers, A.M., *Professor of Physical Education for Men*  
Chester Winfield Holmes, Ed.D., *Adjunct Professor of Education*  
Benjamin Franklin Kyker, A.M., *Adjunct Professor of Education*  
Meredith Chester Wilson, B.S., *Adjunct Professor of Education*  
Ruth Coyner Little, Ph.D., *Professorial Lecturer in Education*  
Ray LaForest Hamon, Ph.D., *Professorial Lecturer in Education*  
Chester Elwood Leese, Ph.D., *Associate Professor of Physiology*  
Helen Bennett Lawrence, A.M., *Associate Professor of Physical Education for Women*  
Burnice Herman Jarman, A.M., Ed.D., *Associate Professor of Education*  
Kathryn Mildred Towne, A.M., *Associate Professor of Home Economics*  
Edwin Wallace Davis, Ph.D., *Associate Professor of Psychology*  
Charles Edward Bish, A.M., Ed.D., *Associate Professor of Education*  
Jenny Emsley Turnbull, A.M., *Assistant Professor of Physical Education for Women*  
Dorothy Helene Veon, A.M., *Assistant Professor of Secretarial Studies*  
Elizabeth Burtner, A.M., *Assistant Professor of Physical Education for Women*  
Margaret Olive Osborn, M.S., *Assistant Professor of Home Economics*  
Virginia Loretta Dennis, A.B., *Assistant Professor of Physical Education for Women*  
Marjorie Tate, B.S., A.M., *Assistant Professor of Physical Education for Women*

\* The President of the University, the Dean of the School, the Registrar of the University, the Director of Admissions of the University, Professors, Adjunct Professors, Associate Professors, Assistant Professors, and Instructors constitute the Faculty.

Charles Norval Cofer, Ph.D., *Assistant Professor of Psychology*  
 Agnes Tweedie Beckwith, Ed.M., *Lecturer in Education*  
 LuVerne Crabtree Walker, A.M., *Lecturer in Education*  
 Madaline Kinter Remmlein, Ph.D., J.D., *Lecturer in Education*  
 Helen Barton Goodwin, A.M., *Lecturer in Education*  
 Blake Smith Root, B.S., A.M., *Lecturer in Education*

## CONSULTANTS IN RESEARCH

John Kerr Rose, Ph.D., *Research Associate in Education*  
 Francis James Brown, Ph.D., *Research Associate in Education*  
 Leonard August Larson, B.P.E., M.Ed., Ph.D., *Research Associate in Education*  
 Howard Richmond Anderson, Ph.D., *Research Associate in Education*

## READING CLINIC

Jane Frost Hilder, *Supervisor, Lecturer in Education*  
 Marion DeFries Hall, A.M., *Assistant Director*  
 Mary Hoskins Gatchell, A.M., *Assistant*

## COMMITTEES\*

## THE DEAN'S COUNCIL†

1947

Burnice Herman Jarman  
 Kathryn Mildred Towne

1948

Frank Mark Weida  
 Ruth Harriet Atwell

1949

Mitchell Dreese  
 Helen Bennett Lawrence

## COMMITTEE ON ADMISSION AND ADVANCED STANDING

The Dean of the School, *Chairman*

Harold Griffith Sutton  
 Frances Kirkpatrick  
 William Henry Myers

Frank Mark Weida  
 Burnice Herman Jarman  
 Ruth Harriet Atwell

## COMMITTEE ON SCHOLARSHIP

Charles Edward Bish, *Chairman*

William Henry Myers

Helen Bennett Lawrence

Kathryn Mildred Towne

\* The President of the University and the Dean of the School of Education are members ex officio of all committees.

† Elected by the Faculty.

PROGRAMS FOR THE EDUCATION OF  
TEACHERS





## PROGRAMS FOR THE EDUCATION OF TEACHERS\*

The School of Education of The George Washington University presents programs of study for four groups of students: (1) junior college graduates preparing to enter the teaching profession, (2) experienced teachers who have graduated from normal schools, (3) college graduates seeking improvement in professional competency through graduate study, and (4) those seeking advanced study beyond the master's level in preparation for higher administrative and teaching positions. These programs of study lead to the following degrees:

Bachelor of Arts in Education  
Master of Arts in Education  
Doctor of Education

For the convenience of teachers residing some distance from Washington, a considerable number of courses are offered late Friday afternoon and Saturday morning. These courses are changed from year to year to make almost the whole range of courses available to those able to attend classes only on week ends.

### PROGRAMS LEADING TO THE DEGREE OF BACHELOR OF ARTS IN EDUCATION

Programs leading to the degree of Bachelor of Arts in Education have three main objectives: (1) provision of a general educational background, (2) a functional command of ideas, concepts, knowledges, and skills in one or more teaching fields, and (3) a mastery of basic professional information and skills adequate for a beginning teacher. Since the contents of teaching fields differ in scope and complexity, some programs are longer than others in terms of credit hours. None require less than 126 credit hours of satisfactory work, exclusive of required Physical Education. Normally, 60 credit hours of the total requirement is completed in the Junior College of the University or in an equivalent institution elsewhere.

#### GENERAL EDUCATION

The general educational backgrounds needed by prospective teachers are obtained through: (1) pre-college education, (2) college courses,

\* For programs leading to the degrees of Bachelor of Science in Home Economics and Bachelor of Science in Physical Education, see the general catalogue.

(3) work experience, (4) leadership activities, (5) participation in student campus activities, and (6) utilization of off-campus cultural opportunities.

*College course requirements.*—Course requirements depend in part upon the senior high school credits presented for college admission. They are as follows:

ENGLISH		Credit Hours
English 1-2: Freshman English.....	Special placement examinations, required of all entering freshmen, are conducted by the English Department. Those students who show marked superiority may be exempted from one or both terms of the course.	6
One of the following survey courses in literature.....		6
English 51-52: Introduction to English Literature		
English 71-72: Introduction to American Literature		
English 91-92: Introduction to European Literature		

#### FOREIGN LANGUAGES

French, German, Latin, or Spanish.....	12
A student offering for admission four acceptable high school units of a single foreign language, or the equivalent, is not required to take any foreign language. If he offers three units, he must complete the second term of the second-year college course in the same language. If he offers two units, he must complete the entire second-year college course in the same language. If he offers one unit, he must complete the second term of the first-year college course and the entire second-year course in the same language.	

#### SOCIAL STUDIES

History 71-72: The Development of American Civilization.....	6
Another Social Science chosen from the following courses.....	6
Economics 1-2: Introductory Economics	
Geography 121-22: Political Geography	
History 39-40: The Development of European Civilization	
Political Science 9-10: Government of the United States	
Sociology 27, 28: Organization and Problems of Society	

A student offering for admission two or more acceptable senior high school units in the Social Studies may be exempted from the second part of this requirement.

#### SCIENCE AND MATHEMATICS

Two terms of science or mathematics to supplement senior high school courses in these fields and chosen from the following.....	6-8
Biology 1-2: Survey in Biology	
Botany 1-2: Structure and Functions of the Flowering Plant; Survey of the Plant Kingdom	
Chemistry 11-22: General Chemistry	
Mathematics 3 and 6: College Algebra; Plane Trigonometry	

Mathematics 6 and 12: Plane Trigonometry; Analytic Geometry  
 Physics 5 and 6, or 6 and 7: General Physics  
 Zoology 1-2: Introduction to Zoology

OTHER COURSES

Psychology 1 and 22: General and Educational Psychology.....	6
Speech 1: Principles of Effective Speaking or	
Speech 11: Training of the Speaking Voice.....	3
Students who demonstrate marked superiority in Speech may be exempted from this requirement. Such exemption is granted only on the recommendation of the Department of Speech.	
Statistics 51: General Statistics.....	3

ACADEMIC ELECTIVES

Electives may be increased through the various exemptions.

PHYSICAL EDUCATION

Physical Education 1-2 and 11-12

A student may be exempted from this requirement if registered for less than three courses or regularly employed during the day.

Minimum required credits.....60 or 62

*Work experience, leadership activities, participation in student campus activities, and the utilization of off-campus cultural opportunities.*— Obviously, these cannot be prescribed. Nevertheless, they constitute an important part of the general educational background of prospective teachers. In conference with a staff member of the Department of Education assigned as his general adviser, the student is expected to plan adequate experiences in these areas. Not later than one month after matriculation in the School of Education the student must file in the Office of the Dean a statement of such plans approved by his adviser. He must also keep his adviser informed concerning the fulfillment of his plans and to this end include in plans filed, scheduled conferences with his adviser.

Success of the student in enriching his general educational background by these means will be taken into consideration at the end of the first term of the junior year when the faculty will review the qualifications of candidates to determine any who are not of sufficient promise as prospective teachers to warrant continuation of their candidacies. Success in these activities will also be considered when the list of candidates is again reviewed early in the last term of the senior year immediately after the results of the National Teacher Examinations are available. In estimating the success of the student in this connection, more weight will be given to evidence of initiative, eagerness to make the most of each experience, balance, and quality of experience than to the number of different experiences.

Although the student is not required to establish a program of non-academic activities until he becomes a degree candidate in the School of



Education, he is advised to do so as soon as he enters the Junior College. To this end, he should consult with the Junior College adviser of students in the pre-Education curriculum soon after entering the Junior College. Whatever is accomplished in this connection while in the Junior College will reduce the obligations of the student after admission to the School of Education.

#### TEACHING-FIELD PREPARATION

Teaching-field preparation depends upon the kind of teaching position for which the student is preparing. Those planning to teach in elementary schools need a degree of competency in several fields. Those preparing to teach in junior or senior high schools must demonstrate competency in a major teaching field and a minor teaching field. Ordinarily, students preparing to teach in evening schools for adults are required to prove competency in only one teaching field.

The student should begin teaching-field preparation while in the Junior College and should make provision for it in planning his program of studies.

Teaching-field requirements include satisfactory completion of prescribed academic courses, a satisfactory score on the special field examination of the National Teacher Examinations, and satisfactory completion of the prescribed special methods course.

Prescribed academic courses vary in number in accordance with the scope and complexity of the teaching field and the license requirements of the various states. Minimum academic course requirements for each teaching field are listed on succeeding pages.

The prescribed course in special methods is concerned primarily with methods of initiating, guiding, and evaluating learning experiences dealing with the content of the teaching field. It attempts to bring to the student specific suggestions drawn from the accumulated experience of successful teachers. However, in addition, the course reviews the teaching field content currently in use in schools and the examination at the end of the course provides the final test of competency in the teaching field.

#### Prescribed Courses in the Various Teaching Fields

ART		Credit Hours
One two-term course from the following group.....		6
Art 121-22: World History of Art		
Art 151-52: Modern Art		
Art 161-62: History of Art Criticism		
One two-term course from the following group.....		6
Art 101-2: The Design of the Home		
Art 141-42: Interior Decoration		
Art 143-44: Folk Arts of America		



## The School of Education

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Two two-term courses from the following group.....	24
*Art 67-68: Life Drawing and Painting.....	
*Art 73-74: Antique Drawing.....	
Art 165-66: Drawing and Painting—Still Life, Life, and Portrait.....	
Art 179-80: Sculpture.....	
Education 141-42: Teaching Art.....	6
Total.....	42

### BIOLOGY

Biology 1-2: Survey in Biology.....	6
Botany 1: Structure and Functions of the Flowering Plant.....	3
Zoology 1-2: Introduction to Zoology.....	8
Physiology 115: Physiology.....	3
Home Economics 152: Nutrition.....	3
Additional courses as approved by the Adviser.....	12
Education 144: Teaching Science.....	2
Total.....	37

### BUSINESS EDUCATION

Economics 1-2: Introductory Economics.....	6
Business Administration 51: Introductory Accounting.....	3
Secretarial Studies 51: Business Communications.....	3
Additional courses as prescribed in one of the following groups:	
Group 1—Secretarial Studies	
Secretarial Studies 2: Intermediate Typewriting.....	2
Secretarial Studies 12: Shorthand and Transcription.....	4
Secretarial Studies 15-16: Advanced Shorthand and Transcription.....	6
Secretarial Studies 52: Business Communications.....	3
Secretarial Studies 54: Secretarial Practice.....	3
Additional courses in secretarial studies as approved by the Adviser.....	6
Education 150: Teaching Business Education.....	2
Total.....	38
Group 2—Bookkeeping, Business Arithmetic, and Business Law	
Business Administration 52: Introductory Accounting.....	3
Business Administration 101-2: Business Organization and Management.....	6
Statistics 52: Mathematics of Finance.....	3
Political Science 127-28: Commercial Law.....	6
Two of the following courses, as approved by the Adviser.....	6
Business Administration 115: Business Finance.....	
Business Administration 118: Investments.....	
Business Administration 128: Insurance.....	
Business Administration 155: Analysis of Financial Statements.....	
Economics 121: Money and Banking.....	
Education 150: Teaching Business Education.....	2
Total.....	38

\* Art 67-68 and 73-74 are listed in the general catalogue as 167-68 and 173-74.

## Group 3—Distributive Education

Business Administration 171: Marketing.....	3
Business Administration 172: Marketing Problems.....	3
Business Administration 191-92: Problems in Retailing.....	6
Economics 141: Labor Economics.....	3
Psychology 141: Psychology of Advertising and Selling.....	3
Two of the following Courses as approved by the Adviser.....	6
Speech 134: Business Interviews and Speeches	
Political Science 127: Commercial Law: Contracts, Agency, and Bailments	
Political Science 128: Commercial Law: Negotiable Instruments, Property, Sales, Mortgages	
Home Economics 123: Household Finance and Problems of the Consumer	
Economics 143: Labor Movements	
Economics 172: Agricultural Economics	
Education 150: Teaching Business Education.....	2
Total.....	38

## CHEMISTRY

Chemistry 11-12: General Chemistry.....	8
Chemistry 21: Qualitative Inorganic Analysis.....	4
Chemistry 22: Quantitative Inorganic Analysis.....	4
Chemistry 151-52: Organic Chemistry.....	2
Chemistry 191: History of Chemistry.....	2
One of the following two-term courses.....	8-10
Chemistry 111-12: Physical Chemistry	
Biochemistry 221-22: Biochemistry	
Education 144: Teaching Science.....	2
Total.....	36-38

## ELEMENTARY EDUCATION

Education 123-24: Reading Problems.....	6
Two of the following courses.....	6
Education 224: New Developments in Children's Literature	
English 125: The Evolution of Modern Speech	
English 126: The Appreciation of Literature	
Speech 102: Oral Interpretation of Literature	
One of the following two-term courses.....	6
History 39-40: The Development of European Civilization	
Economics 1-2: Introductory Economics	
Geography 121-22: Political Geography	
Political Science 9-10: Government of the United States	
One of the following two-term courses or two one-term courses.....	6
Biology 1-2: Survey in Biology	
Botany 5: Field Botany	
Home Economics 55: Nutrition and Its Relation to Health	
Physical Education 121: School and Community Health Programs	
Physiology 115: Physiology	
Zoology 5-6: Field Zoology	
One of the following two-term courses or two one-term courses.....	6
Education 209-10: Child Growth and Development	

## The School of Education

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Home Economics 164: Child Nutrition	
Home Economics 181x: The Child in the Home	
Psychology 125: Child Psychology	
One of the following two-term courses or two one-term courses.....	6
Art 71-72: Introduction to the Arts in America	
Art 101-2: The Design of the Home	
Art 141-42: Interior Decoration	
Art 143-44: Folk Arts of America	
Home Economics 123: Household Finance and Problems of the Consumer	
Psychology 2: Applied Psychology	
Psychology 116: Abnormal Psychology	
One of the following two-term courses.....	6
Education 221-22: Early Childhood Education	
Education 225-26: Elementary Education in the Intermediate Grades	
Total.....	42

### ENGLISH

English 1-2: Freshman English.....	6
Speech 1: Principles of Effective Speaking, or	
Speech 11: Training the Speaking Voice.....	3
English 51-52: Introduction to English Literature.....	6
English 72: Introduction to American Literature.....	3
English 125: The Evolution of Modern Speech.....	3
English 126: The Appreciation of Literature.....	3
English 135-36: Shakespeare.....	6
One of the following two-term courses or two one-term courses.....	6
English 182: The English Novel	
English 184: The English Drama	
English 151-52: The Romantic Movement	
English 161-62: Victorian Literature	
English 175: The American Novel	
English 177-78: Recent American Literature	
Speech 102: Oral Interpretation of Literature	
Education 136: Teaching English.....	3
Total.....	39

### FRENCH

French 1-2: First-year French.....	6
French 5-6: Second-year French.....	6
French 109-10: Conversation and Composition.....	6
French 131-32: History of French Literature and Civilization.....	6
Additional courses in French as approved by the Adviser.....	12
Education 146: Teaching Foreign Languages.....	3
Total.....	39

### GERMAN

German 1-2: First-year German.....	6
German 5-6: Second-year German.....	6
German 107-8: Advanced Prose Composition.....	2



German 119-20: Survey of German Literature.....	6
Additional courses in German as approved by the Adviser.....	12
Education 146: Teaching Foreign Languages.....	3
<b>Total.....</b>	<b>35</b>

**HISTORY**

History 39-40: The Development of European Civilization.....	6
History 71-72: The Development of American Civilization.....	6
Six credit hours, as approved by the Adviser, from each of the following groups.....	18
Group 1—American History	
History 171-72: Social History of the United States	
History 181-82: Diplomatic History of the United States	
History 174: Economic History of the United States	
Group 2—European History	
History 143: Modern Europe, 1815-1919	
History 144: World Affairs, 1919-1947	
History 151-52: English History	
History 130: Nationalism	
History 140: Modern Imperialism	
Group 3—Latin American History	
History 161-62: Hispanic American Civilization	
History 163-64: Pan American Problems	
History 165: The United States and Latin America	
Additional credit hours, as approved by the Adviser from one of the foregoing groups.....	6
Education 138: Teaching the Social Studies.....	2
<b>Total.....</b>	<b>38</b>

**MATHEMATICS**

Mathematics 3: College Algebra.....	3
Mathematics 6: Plane Trigonometry.....	3
Mathematics 12: Analytic Geometry.....	3
Mathematics 19: Differential Calculus.....	3
Mathematics 20: Integral Calculus.....	3
Mathematics 125: Advanced Algebra.....	3
Mathematics 132: Differential Equations, or	
Mathematics 139: Advanced Calculus.....	3
An additional course in Mathematics as approved by the Adviser....	3
Statistics 52: Mathematics of Finance.....	3
Education 140: Teaching Mathematics.....	2
<b>Total.....</b>	<b>29</b>

**PHYSICS**

Physics 5, 6, 7, and 8: General Physics.....	11
Physics 55: Physical Measurements.....	2
Physics 116: Optics.....	3
Physics 121: Mechanics.....	3
Physics 125: Principles of Electricity.....	3
Mathematics 12: Analytic Geometry.....	3



## The School of Education

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Mathematics 19: Differential Calculus.....	3
Mathematics 20: Integral Calculus.....	3
Chemistry Elective—Chemistry 11-12: General Chemistry or Chemistry 12-21: General Chemistry and Qualitative Inorganic Analysis .....	8
Six credit hours to be selected from the following.....	6
Physics 113: Molecular and Atomic Physics	
Physics 122: Heat and Thermodynamics	
Physics 128: Sound	
Physics 132: Electronics	
Physics 143: Modern Experimental Physics	
Physics 155: Advanced Physical Measurements	
Education 144: Teaching Science.....	2
Total.....	47

### SOCIAL STUDIES

Economics 1-2: Introductory Economics.....	6
Geography 121-22: Political Geography.....	6
Sociology 27, 28: Organization and Problems of Society or	
History 39-40: The Development of European Civilization.....	6
History 71-72: The Development of American Civilization.....	6
Political Science 9-10: Government of the United States.....	6
Additional second-group courses as approved by the Adviser from one of the following fields: Economics, Geography, History, Political Science, Sociology .....	12
Education 138: Teaching Social Studies.....	3
Total.....	45

### SPANISH

Spanish 1-2: First-year Spanish.....	6
Spanish 5-6: Second-year Spanish.....	6
Spanish 109-10: Conversation and Composition.....	6
Additional courses as approved by the Adviser.....	18
Education 146: Teaching Foreign Languages.....	3
Total.....	39

### SPEECH

Speech 1: Principles of Effective Speaking.....	3
Speech 2: Persuasive and Entertaining Speaking.....	3
Speech 11: Training the Speaking Voice.....	3
Speech 102: Oral Interpretation of Literature.....	3
Additional courses as approved by the Adviser from the following...	18
Speech 42: Parliamentary Law	
Speech 61-62: Acting	
Speech 65-66: Stagecraft	
Speech 109: Radio Speaking	
Speech 121: Argumentation and Debate	
Speech 131: Group Thinking and Conference Leadership	

Speech 145-46: English and American Orators and Oratory	
Speech 163-64: Play Production	
Education 136: Teaching English.....	2
Total.....	32

#### PROFESSIONAL EDUCATION

The basic professional information and skills needed by beginning teachers are provided through four one-year courses, two in each of the junior and senior years. Lectures and class discussions are closely coordinated with field work. Instruction is differentiated to meet the needs of those preparing to teach on the various levels—elementary school, junior high school, senior high school, and adult.

#### Professional Courses

Education 109-10: Learning and Teaching.....	6
Education 121-22: Society and the School.....	6
Education 131: Common Teaching Skills.....	3
Education 136 to 150: Special Methods.....	2-6
Education 133-34: Observation and Practice Teaching.....	6
Total.....	23-27

*Learning and Teaching.*—Candidates enrolled in four-year programs leading to the degree of Bachelor of Arts take this course in the junior year. Those enrolled in five-year programs take it in the senior year.

The course attempts to promote a functional understanding of the nature of learning and teaching by focussing the attention of the student upon actual classroom situations and the psychological, sociological, and educational principles relevant to them.

Classes meet for lecture and discussion two hours a week. At least an equal amount of time is spent in observation and study of classroom situations. Class discussion normally revolves around these field experiences.

The course, particularly during the first term, is also intended to provide the student with exploratory experiences of assistance to him in deciding whether or not his choice of the profession of teaching has been wise. The student's performance in connection with the course is one of the factors considered when the Faculty reviews the list of candidates who have completed the first term of the junior year (senior year for those enrolled in five-year programs).

*Society and the School.*—This course is also taken in the junior year by candidates enrolled in four-year programs (senior year by those in five-year programs).

The first term of the course attempts to promote an understanding and appreciation of the role of schools in the sound promotion of the

enduring interests of our democratic society. More particularly, it attempts to develop a functional understanding of the contributions of all social agencies in the education of people and of desirable cooperative working relations that help the school to play its part as a member of the institutional "team" of the community.

The second term of the course is concerned with study of the school as a whole—its purposes, program of studies, out-of-class activities, general organization, and major instructional problems. Although schools at all levels are studied, students give particular attention to schools at the level within which they are preparing to teach.

During both terms of this course classes meet for lecture and discussion two hours a week. At least an equal amount of time is spent in field study. During the first term each student makes an extended study of one cooperating social institution and shorter studies of ten others. In the second term extended study of schools at the level of the student's special interest is supplemented by briefer studies of schools at other levels. Class discussion is largely determined by field experiences.

This course is also intended to provide the student with exploratory experiences of guidance value. The performance of the student in the first term of the course is also given careful consideration by the Faculty in its review of the list of candidates at the beginning of the second term of the junior year (senior year for those enrolled in five-year programs).

*Common Teaching Skills.*—Those enrolled in four-year programs take this course in the senior year. Those enrolled in five-year programs take it in the fifth year.

The course is concerned with the skills needed by teachers in connection with classroom management, homeroom procedures, administrative routines, activity sponsorship, group planning, and public relations.

As in other professional courses, classes meet two hours a week for lecture and discussion and students devote at least an equal amount of time to field work. The observation of classroom teaching done in connection with the Observation Course (Education 133), for which students are normally enrolled concurrently, supplements the field work of the course.

*Special Methods Courses.*—Associated with each teaching field is a course dealing with its special teaching problems. In addition to the study of practices followed by successful teachers, actual teaching content as found in current texts and courses of study is reviewed. Needed content, not included in academic courses available for teaching field preparation, is taught in these courses.

*Observation and Practice Teaching.*—This course is taken in the senior year by students enrolled in four-year programs (in the fifth year by those in five-year programs).



It begins with the observation of classroom teaching in selected situations. Assumption of responsibility for teaching functions is gradual, leading eventually to practice in the complete direction of classroom activities. Those preparing to teach in secondary schools have the opportunity of observing and doing practice teaching in both major and minor teaching fields and on both junior and senior high school levels. The course is directed by a full-time member of the faculty of the School of Education. The work of each student is under the direct supervision of a critic teacher, selected because of unusual success in teaching, ability to supervise, and broad understanding of educational problems. Critic teachers are part-time members of the instructional staff of the School. Observation and teaching are done in the public schools of the metropolitan area of Washington, assuring practice in situations comparable to those the student is likely to face on becoming a teacher.

#### ADMISSION

To be admitted to candidacy for the degree of Bachelor of Arts in Education, the applicant must: (1) hold an Associate in Arts degree based on Curriculum D-1 in the Junior College or the equivalent from another accredited higher institution, or a certificate of graduation from an approved normal school or the equivalent; (2) have a quality-point index of 2.00 (average grade of C) counting "Incomplete" grades as "F"; (3) have demonstrated a genuine interest in teaching and possess personality traits that give promise of success as a teacher.

#### FIVE-YEAR PROGRAMS LEADING TO THE DEGREES OF BACHELOR OF ARTS AND MASTER OF ARTS IN EDUCATION

Five-year programs are designed: (1) to permit more adequate teaching field and professional preparation, (2) to prepare for special teaching positions, and (3) to meet teaching-certificate requirements based upon five years of preparation.

Students in these programs usually devote the junior year to additional teaching field preparation and general education. Ordinarily teaching field preparation is continued in the senior year and the first two professional courses (Education 109-10, 121-22) are taken. The work of the fifth year includes the remaining undergraduate professional courses and the balance of graduate courses needed to meet the requirements of the degree of Master of Arts.

Candidates must have a quality-point index of at least 2.50 before beginning the work of the senior year. As much as 18 credit hours of



the work of the senior year may be taken for graduate credit. Observation and Practice Teaching, taken in the fifth year, may not be taken for graduate credit.

Candidates enrolled in five-year programs are able to prepare more adequately in their major or minor teaching fields, or in both. Additional teaching field courses must be approved by the Adviser in the teaching field concerned.

The five-year plan of study also provides an opportunity for candidates to prepare to teach "common learnings" courses in one or more of the various core curriculum plans now being adopted in many secondary schools. Such programs need to be carefully planned to meet the demands of the situation in which the candidate hopes to teach.

A number of cities and some states require five years of satisfactory preparation before issuing certain teaching certificates. Candidates seeking such certificates should familiarize themselves with the requirements of the community or state concerned and plan their programs accordingly.

Five-year programs must meet all the requirements of the degrees of Bachelor of Arts and Master of Arts in Education, and must be approved by the Adviser designated for these programs.

#### PROGRAMS LEADING TO THE DEGREE OF MASTER OF ARTS IN EDUCATION

Programs of study leading to the degree of Master of Arts are designed: (1) to enable teachers of experience to increase their knowledge of professional and academic information and skills, (2) to prepare for special types of educational service, and (3) to provide opportunities for graduates of liberal arts colleges to acquire needed professional education.

Programs are planned in conference with the designated Adviser and take into consideration the interests of the candidate, his previous background, and the certification requirements of the state and locality in which he plans to teach.

#### PLANS OF STUDY

Two general plans of study lead to the degree.

*Plan 1.*—This plan requires a minimum of 30 hours of graduate credit, including a thesis carrying 6 hours of graduate credit.

*Plan 2.*—This plan requires a minimum of 33 hours of graduate credit, including a course in *Educational Research Methods and Procedures* carrying 3 hours of graduate credit.

Graduate work completed in other accredited institutions of learning may be credited toward the Master's degree, but a minimum of 30 credit hours must be completed in the School of Education of The George Washington University.

Under Plan 1, a minimum of 12 credit hours, in addition to the thesis, must be from courses planned primarily for graduate students (third-group courses). Under Plan 2, a minimum of 18 credit hours, in addition to the course in *Educational Research Methods and Procedures*, must be from third-group courses. Under either plan a minimum of 12 credit hours, not including the thesis or the research course, must be from courses offered in the Department of Education.

Programs may provide for additional academic preparation in one or more teaching fields. In such cases, however, undergraduate and graduate courses combined must be at least equivalent to the undergraduate requirements for the degree of Bachelor of Arts in Education in the teaching field concerned.

Programs are normally based upon undergraduate preparation equivalent to the requirements of the degree of Bachelor of Arts in Education (see pages 7-18). Candidates with less professional preparation must make up their deficiencies either prerequisite to or as part of their graduate study.

Each candidate must file in the Office of the Dean not later than one month after admission to the School of Education a program of study approved by his Adviser.

All candidates must take, at one of the designated periods, a professional comprehensive examination which shall take into account the candidate's area of specialization.

#### PROGRAMS OF STUDY

In accordance with the foregoing general pattern of requirements, graduate programs of study are available in:

Early Childhood Education	Guidance
Elementary Education in the Intermediate Grades	Adult Education
Elementary School Administration	Employee Training
Secondary School Administration	Teaching Fields in Secondary Education

#### ADMISSION

To be admitted to candidacy for the degree of Master of Arts in Education the applicant must: (1) hold a Bachelor's degree from an accredited institution; (2) have an undergraduate quality-point index of 2.50 or above (C + average); (3) have demonstrated a genuine interest

in teaching; (4) be in possession of personality traits that give promise of better-than-average success as a teacher.

To be admitted to candidacy in programs designed to prepare for service in guidance and administration two years of successful teaching experience are prerequisite.

#### PROGRAM LEADING TO THE DEGREE OF DOCTOR OF EDUCATION

The requirements for the degree of Doctor of Education cannot be stated in credit hours, but they consist in general of at least two full years of work beyond the degree of Master of Arts in Education or the equivalent. The programs of study are designed to prepare students for administrative or supervisory positions, the teaching of education in normal schools or colleges, the teaching of an academic subject in schools or colleges, or for specialized types of educational service. The work is given a practical rather than a theoretical bent, and emphasizes the mastery and application of subject matter, both in the study requirements and in the dissertation. Special emphasis is placed upon the professional success of the candidate.

The candidate's program of study depends for the most part upon his previous educational background and his professional objective. Opportunities are provided for study leading to the following professional objectives:

School Superintendent	Director of Curriculum Development
Secondary School Principal	Professor of Education
Supervisor	Specialist in Educational Research
Director of Guidance	

#### QUALIFICATIONS OF THE APPLICANT

The candidate for the degree of Doctor of Education must have completed (1) graduate work in fields prerequisite to his objective, equivalent to that required for the degree of Master of Arts in Education in The George Washington University, and (2) at least three years of successful educational experience.

#### ADMISSION TO CANDIDACY

To be admitted to candidacy for the degree the applicant must be accepted by the Faculty of the School of Education on the basis of an examination conducted by a committee appointed by the Dean. This examination will usually include the following: (1) a written examination involving problems related to the applicant's background; (2) a scholastic-aptitude test; (3) an oral examination.



#### CONSULTATIVE COMMITTEE

If the applicant is accepted as a candidate, his consultative committee, in cooperation with the candidate, will (1) determine the candidate's fields of study, in each of which the candidate must pass a written examination at least eight months before he presents himself for the degree; (2) formulate a list of course requirements and of readings that will assist him in preparing for these examinations; and (3) designate the tools of investigation that will be needed by the candidate in the prosecution of his study. These tools may include one foreign language, or more, statistical methods, historical criticism, or any others considered essential by the committee. An examination in the tools designated must be passed by the candidate before he takes his comprehensive examination.

#### THE DISSERTATION

When the candidate has satisfied the requirements of his consultative committee, the committee is dissolved. A member of the faculty, in whose field the topic of the dissertation falls, is then appointed to serve as the candidate's adviser on his dissertation and in his field of specialization, and to recommend him for the final oral examination when, in his judgment, the candidate's dissertation is acceptable.

Not later than the date specified in the University calendar the candidate shall submit to the Dean of the School of Education four copies of his dissertation—one typewritten original and three legible and complete carbon copies, on official thesis paper—and also a typewritten summary of the dissertation consisting of not more than 2,500 words. Requirements regarding the form of the dissertation are stated in the general catalogue and additional information will be supplied by the Dean.

The successful candidate is required, at the time of the acceptance of the thesis, to pay a fee to cover the expense of printing the summary of his dissertation.

#### THE FINAL EXAMINATION

At least three weeks before the degree is to be conferred the candidate must pass an oral examination on his dissertation and on his field of specialization before a committee of the Faculty appointed by the Dean, supplemented by two experts from outside the University appointed by the President. This examination is open to the public and all are privileged to question the candidate. The Dean, or a member of the Faculty designated by him, will preside at this examination.



## WEEK-END COURSES

Many teachers who are a considerable distance from Washington find it difficult to attend evening classes during the week. For the convenience of these teachers the School of Education has scheduled four week-end periods of instruction—Friday, 5:15 to 7:15 P.M., and 7:30 to 9:30 P.M.; Saturday, 9:10 to 11:00 A.M., and 11:10 A.M. to 1:00 P.M. During each of these instructional periods courses of interest to various teacher groups are offered. This arrangement enables teachers to enroll for two week-end courses and have additional time for study in the library. By alternating mid-week and week-end courses the whole range of inservice courses offered by the Department of Education is made available to those able to attend classes only over the week end. Such students are thus enabled to meet the requirements for the various degrees.

The School of Education is glad to assist teachers in arranging a car pool for transportation and in locating suitable over-night accommodations.

## READING CLINIC

To help children and adults with reading difficulties, the School of Education operates a diagnostic reading clinic. Children are usually referred to the Clinic by teachers who have observed reading difficulties but parents may seek help without teacher reference.

To arrange for a clinical examination of reading status write to or call at the Office of the School of Education for an application blank. Complete and return it to the Office of the School of Education. If the clinic is able to undertake the examination an appointment will be arranged with the Supervisor (usually Saturday morning at 11:00 A.M.). Take one copy of the application, after approval by the Dean, to the Cashier's Office and pay the clinic fee of ten dollars. Give the application, stamped by the Cashier, to the Supervisor of the Reading Clinic at the time of appointment.

The clinic operates from 11:00 A.M. to 1:00 P.M. on Saturdays. Those being examined should arrange to be present during this time for two or three successive Saturdays as indicated by the Supervisor. When the examination has been completed a written report of the diagnosis is given to the client. Since the diagnosis often indicates a need for special treatment, teachers and parents are urged to arrange a conference with the Supervisor at the time the written report is presented.

## FEES AND FINANCIAL REGULATIONS

By authorization of the Board of Trustees, the following fees have been adopted effective September 2, 1946:

### UNIVERSITY FEE (see explanation below)

For each term or any part thereof.....	\$8.00
For auditors,* for each registration.....	2.00

### TUITION FEES

For each credit hour for which the student registers (except work taken by a candidate for a Doctor's degree).....	10.00
For the degree of Doctor of Education	
For work leading to and including the general examination.....	300.00
For work leading to and including the final examination.....	100.00

### ADDITIONAL COURSE FEES

In certain courses additional fees and deposits, such as laboratory, or practice-teaching fees, are charged as indicated in the course descriptions.

### GRADUATION FEES

Wherein the Bachelor's degree is granted.....	20.00
Wherein the Master's degree is granted.....	20.00
Wherein the degree of Doctor of Education is granted.....	20.00
FEE FOR BINDING MASTER'S THESIS.....	3.00
FEE FOR PRINTING AND FILING SUMMARY OF DOCTORAL THESIS.....	50.00

### SPECIAL FEES

Late-registration fee, charged each student who fails to register within the designated period.....	5.00
Service fee, charged each student for late payment of tuition (see "Payment of Fees") .....	1.00
Reinstatement fee, charged each student who is reinstated after suspension for delinquency in fees.....	5.00
For special physical examination.....	2.00
For examinations to qualify for advanced courses and for all special examinations .....	5.00
For diagnostic reading clinic.....	10.00

### UNIVERSITY FEE

Payment of the University fee covers all expenses incident to registration and, in addition, secures to each student the following University privileges: (1) the issuance of three certified transcripts of record, if

\* Payment of this fee entitles auditors and extension students to the reference use of the University Library facilities, upon identification by the registration card, but it does not entitle auditors or extension students to the other privileges to which payment of the preceding fees entitles resident students.

and when desired; (2) the services of the Placement Office; (3) the use of University Library facilities, except as otherwise designated; (4) gymnasium privileges; (5) admission to all athletic contests, unless otherwise specified; (6) subscription to the *University Hatchet*, the student newspaper; (7) admission to University debates; (8) medical attention and hospital services as described under the Department of Health Administration in the general catalogue. These privileges, however, with the exception of the issuance of transcripts, terminate, and a student is no longer in residence, when he withdraws or is dismissed from the University.

#### PAYMENT OF FEES

All fees are payable at the Office of the Cashier, 725 Twenty-first Street, NW. No student is permitted to complete registration or to attend classes until all fees are paid. Fees for each term are due and payable in advance at the time of registration.

In exceptional cases, subject to the approval of the Comptroller, the student may sign a contract for term charges, except for the University fee and other fees payable in advance, permitting payments as follows:

*Fall Term.*—One third at the time of registration, plus the University fee and deposits; one third on November 4; one third on December 3.

*Winter Term.*—One third at the time of registration, plus the University fee and deposits; one third on March 3; one third on April 3.

During the fall and winter terms a student who fails to meet payments when due, but who pays his fees on or before the tenth day of the month in which payment is due, is charged a service fee of \$1. A student who fails to meet payments by the tenth day of the month in which payment is due will be suspended and may not attend classes until he has been officially reinstated and has paid all accrued fees and a reinstatement fee of \$5.

A suspended student may not be reinstated for the term after two weeks from the date of suspension. Applications for reinstatement are to be made to the dean of the college, school, or division in which the student is registered.

An auditor pays a University fee of \$2 and all other fees chargeable to the student registered for credit except the late-registration fee.

#### WITHDRAWALS AND REFUNDS

Application for withdrawal from the University or for change in class schedule must be made in person or in writing to the dean of the college, school, or division in which the student is registered. Notification to an instructor is not an acceptable notice.

In authorized withdrawals and changes in schedules, financial adjustments will be made as follows:



*Fall Term.*—Withdrawal dated on or before October 31, cancellation of the second and third payments; withdrawal dated on or before November 30, cancellation of the third payment. No refund or reduction will be allowed on a withdrawal dated subsequent to November 30.

*Winter Term.*—Withdrawal dated on or before February 28, cancellation of the second and third payments; withdrawal dated on or before March 31; cancellation of the third payment. No refund or reduction will be allowed on a withdrawal dated subsequent to March 31.

In no case will the University fee or any part of an initial payment of fees be refunded, and in no case will tuition be reduced or refunded because of nonattendance upon classes.

Payment applies only to the term for which a registration charge is incurred and in no case will this payment be credited to another term.

A fee of \$2 is charged any student in chemistry who fails to check out of the laboratory by the time set by the instructor, or, if he drops a course, at the time such change in his schedule is approved.

Authorization to withdraw and certification for work done will not be given a student who has not a clear financial record.



## COURSES OF INSTRUCTION

Courses offered by the Department of Education are of two types: those designed for the preservice education of candidates and those planned for the inservice education of teachers.

Preservice courses devote two fifty-minute periods a week to lecture and discussion supplemented by a minimum of two hours a week of related field work. A clinical approach to the study of educational problems is used, lectures and discussions revolving around observed practices.

Inservice courses usually meet only once a week for a two-hour period. Class work is supplemented by extensive reading assignments, the preparation of reports, and field work. A student enrolled in one of these courses should plan to devote not less than seven hours a week, exclusive of class time, to the work of the course.

Ample opportunity is provided to study teaching or administrative problems of special interest. To enable students to consult with instructors regarding individual problems, a conference hour is scheduled immediately before or after the class period.

### EXPLANATION OF COURSE NUMBERS

An odd number preceding the name of the course indicates that the course is offered in the fall term; and an even number, that it is offered in the winter term. The letter "x" following an odd course number (e.g., 295x) indicates that the course, normally offered in the fall term, is given in the winter term. The letter "x" following an even course number indicates that the course, normally offered in the winter term, is given in the fall term.

*First-group courses.*—Courses numbered from 1 to 100 are planned for students in the freshman and sophomore years. With the approval of the adviser and the dean, they may also be taken by juniors and seniors. In certain instances, they may be taken by graduate students to make up undergraduate deficiencies or as prerequisite to advanced courses, but they may not be credited toward a higher degree.

*Second-group courses.*—Courses numbered from 101 to 200 are planned for students in the junior and senior years. They may be credited toward higher degrees only when registration for graduate credit has been approved at the beginning of the course by the Dean of the School of Education and by the officer of instruction concerned, and when the completion of additional work has been certified by the officer of instruction.

*Third-group courses.*—Courses numbered from 201 to 300 are planned primarily for graduate students. They are open, with the approval of the officer of instruction to qualified seniors; they are not open to Junior College students or other undergraduates.

#### INDICATION OF THE AMOUNT OF CREDIT

The number of credit hours given for the satisfactory completion of a course is indicated in parentheses after the name of the course. Thus, a year course giving three hours of credit each term is marked (3-3), and a term course giving three hours of credit is marked (3).

#### SECOND- AND THIRD-GROUP COURSES

Only the courses designed to provide professional information and skills are listed below. For courses needed for general education or teaching field preparation, see the General Catalogue. In addition to courses offered in the Department of Education a number of professional courses for teachers are offered in other departments of the University. In the list of courses below, the name of the department in which the course is offered precedes the course number.

#### SECOND GROUP

##### Education 109-10 *Learning and Teaching* (3-3) Hall

Fall term: nature of learning and teaching approached through the study of actual classroom situations. Winter term: the environmental influences that affect learning. Section A: Mon. and Wed., 10:10 A.M.; section B: Mon. and Wed., 6:10 P.M.; field work: two hours to be arranged.

##### Education 121-22 *Society and the School* (3-3) Jarman, Root

Fall term: the local, national, and international roles of education; cooperation of the school with other community agencies. Winter term: organization and operation of schools; principles and functions. Section A: Tues. and Thurs., 10:10 A.M.; section B: Tues. and Thurs., 6:10 P.M.; field work: two hours to be arranged.

##### Education 123-24 *Reading Problems* (3-3) Hilder

A clinical approach to reading difficulties on elementary and secondary school levels. Sat., 9:10 to 11:00 A.M.

##### Education 131 *Common Teaching Skills* (3)

Course unit and lesson planning; homeroom procedures; discipline; clerical routines; activity sponsorship; committee procedures; public relations duties. Mon. and Wed., 5:10 P.M.; field work: two hours to be arranged.

##### Education 133-34 *Observation and Practice Teaching* (2 to 6)

Education 134, practice-teaching fee, \$6 a credit hour. Time and credits to be arranged individually.

English 125 *The Evolution of Modern Speech* (3) Stone  
The development of the English language in a historical treatment of English grammar. Hours to be arranged.

English 126 *The Appreciation of Literature* (3) Stone  
The study of the principles of criticism and their application to various literary types. Hours to be arranged.

Psychology 121 *Educational Psychology* (3)  
Consideration of individual and group differences, adjustment, and the psychology of learning in relation to education and training. Mon., Wed., and Fri., 11:10 A.M.

Psychology 125 *Child Psychology* (3)  
A genetic approach to the study of the child. Mon., Wed., and Fri., 7:10 P.M.  
Psychology 125X—same as Psychology 125, but offered winter term. Mon., Wed., and Fri., 11:10 A.M.

Psychology 131 *Psychological Tests* (3) Hunt, Fehrer  
A survey of psychological tests and their more common uses in business, industry, government, law, medicine, and education. Material fee, \$2.25. Mon., Wed., and Fri., 9:10 A.M.  
Psychology 131X—same as Psychology 131, but offered winter term. Tues. and Thurs., 6:10 to 7:25 P.M.

Psychology 132 *Individual Psychological Testing* (3) Hunt, Fehrer  
Instruction and practice in giving of the Binet test and other individual psychological tests. Prerequisite: Psychology 131. Material fee, \$2.25. Tues. and Thurs., 1:10 P.M.  
Psychology 132X—same as Psychology 132, but offered fall term. Mon. and Wed., 1:10 P.M.

Statistics 115-16 *Principles of Statistical Methods* The Staff  
(3-3)

This course emphasizes the meaning, uses, and applications of: variates and attributes, measurement and enumeration, averages and dispersion, frequency distributions and their characteristics, errors of measurement and their control, index numbers, trends, cyclical relatives, purposive and random sampling in theory and practice and their errors and estimates, correlation in theory, practice, and applications. Prerequisite: one entrance unit in Algebra. Laboratory fee, \$5 a term. Lecture—section A: Tues. and Thurs., 11:10 A.M.; section B: Tues. and Thurs., 6:10 P.M.; section C: Mon. and Wed., 7:10 P.M. Laboratory—section N: Mon., 8:00 to 9:40 P.M.; section O: Tues., 8:00 to 9:40 P.M.; section P: Wed., 8:00 to 9:40 P.M.; section Q: Thurs., 8:00 to 9:40 P.M.; section S: Mon. and Wed., 12:10 to 1:00 P.M.

#### SPECIAL METHODS COURSES

To be elected in the second term of the senior year after substantial preparation in the teaching fields concerned. Course requirements and hours of credit vary with license requirements. Practices of successful teachers are studied and actual teaching content as found in current texts and courses of study is reviewed.



- Education 136 *Teaching English* (2 to 4) Beckwith  
Mon., 5:10 to 7:00 P.M.; field work: two hours to be arranged.
- Education 138 *Teaching Social Studies* (2 to 4) Willis  
Thurs., 5:10 to 7:00 P.M.; field work: two hours to be arranged.
- Education 140 *Teaching Mathematics* (2) Weida  
Hours to be arranged.
- Education 141-42 *Teaching Art* (3-3) Goodwin  
Sat., 11:10 A.M. to 1:00 P.M.
- Education 144 *Teaching Science* (2 to 4) Bish  
Wed., 5:10 to 7:00 P.M.; field work: two hours to be arranged.
- Education 146 *Teaching Foreign Languages* Doyle, Keating  
(3 to 4)  
Hours to be arranged.
- Education 148 *Teaching Home Economics* (2) Kirkpatrick  
Hours to be arranged.
- Education 150 *Teaching Business Education*  
(2 to 6)  
Hours to be arranged.

## THIRD GROUP

- Education 205-6 *The Curriculum* (3-3) French  
Analysis of basic curriculum literature and procedures. The winter term will be organized as a curriculum workshop with lectures, conferences, and group discussions. Fri., 5:15 P.M. Conference hour: Fri., 7:30 P.M.
- Education 209-10 *Child Growth and Development* (3-3) Hall  
Nature of growth and the environmental factors that affect it, with a view to helping teachers to understand children. Sat., 11:10 A.M. Conference hour: Sat., 10:10 A.M.
- Education 213-14 *Seminar: Origins of American Education* (3-3) French  
Historical research in American Education. Tues., 7:35 P.M. Conference hour: Tues., 6:30 P.M.
- Education 215-16 *Seminar: Great Teachers in American Education* (3-3) French  
A study of great teachers from the Colonial period to the present. An attempt will be made to find out the qualities and characteristics that have made these teachers great. (Not offered in 1946-47.)
- Education 217-18 *Contemporary Problems in Education* (3-3) Jarman  
Fall term: designed to help students formulate a personal philosophy of education. Winter term: a study of the forces that shape the policies and offerings of the school. Mon., 7:10 P.M. Conference hour: Mon., 6:10 P.M.



Education 221-22 *Seminar: Early Childhood Education (3-3)* Little

Fall term: home backgrounds, nursery school, and kindergarten situations. Winter term: primary grades. Fri., 7:30 P.M. Conference hour, Fri., 6:30 P.M.

Education 224 *Newer Developments in Children's Literature (3)* Walker

Exploring and evaluating the newer books for children and the children's classics; understanding the contribution of literature in child development; appreciating children's original expressions; surveying resources in the field. Tues., 7:35 P.M. Conference hour: Tues., 6:30 P.M.

Education 225-26 *Seminar: Elementary Education in the Intermediate Grades (3-3)* Little

A comprehensive study of the major problems of the intermediate grades. (Not offered in 1946-47.)

Education 230 *Administration and Supervision of Elementary Education (3)*

Problems of elementary school administrators and supervisors. Sat., 9:10 A.M. Conference hour, 11:10 A.M.

Education 252 *Guidance in Secondary Schools (3)* Davis

Nature, scope, administration, and supervision of guidance functions for Grades 7-12. Provision for the special needs and interests of administrators, counselors, home-room teachers, the Business Education staff, and instructors in other vocational and in academic subjects. Fri., 7:30 P.M. Conference hour: Fri., 6:30 P.M.

Education 255-56 *Secondary Education (3-3)* Bish

Fall term: review of recent literature and practices; particular attention to *Education for All American Youth*, the recent report of the Educational Policies Commission, and *General Education in a Free Society*, Harvard Committee. Winter term: current problems in each of the subject-matter fields. Fri., 7:30 P.M. Conference hour: Fri., 6:30 P.M.

Education 259-60 *Administration of Secondary Education (3-3)* Fox

Management planning, execution, and control; criteria of good management; construction of the master schedule; leadership problems incident to the development of new policies and programs. Sat., 9:10 A.M. Conference hour: 11:00 A.M.

Education 271 *The American School System (3)* Fox

Organization of public education; sources of school revenue; influences of national and state agencies; local administrative units; the chief legal controls; criteria of building administration; responsibilities of teachers. Wed., 7:10 P.M. Conference hour: Wed., 6:10 P.M.

Education 272 *The Teacher and School Supervision (3)* Fox

Nature, organization, human relationships, and techniques. Wed., 7:10 P.M. Conference hour: Wed., 6:10 P.M.

- Education 273 *Administration: Organization and Administration of a School System* (3) Hall  
For superintendents and those aspiring to this position. Issues, principles, and problems of the superintendency as conditioned by local circumstances. (Not offered in 1946-47.)
- Education 274 *Administration: Management Problems of the Superintendent* (3) Hall  
For superintendents and those aspiring to this position. Business management, the budget, construction of buildings, equipment and supplies, pupil transportation. (Not offered in 1946-47.)
- Education 275 *Seminar: State School Administration* (3) Hall  
Organization, administration, supervision, instruction, and finance. (Not offered in 1946-47.)
- Education 276 *Seminar: Public Relations in School Administration* (3) Fox  
Purposes; gathering materials; disseminating agencies; publicity media; public participation in policy-making. (Not offered in 1946-47.)
- Education 278 *School Law* (3) Remmlein  
Sources and scope of school law; legal rights and responsibilities of teachers, pupils, and taxpayers. Other legal problems of major interest to the group. (Not offered in 1946-47.)
- Education 279-80 *Adult Education* (3-3) Bish  
Fall term: nature, extent, and organization of programs in adult education. Winter term: Interests, needs, and capacities of adult learners; techniques employed in motivating and directing learning activities. Mon., 7:10 P.M. Conference hour: Wed., 6:10 P.M.
- Education 281 *Audio-visual Education* (3) \_\_\_\_\_  
Selection and use of audio-visual aids; management of materials and equipment. (Not offered in 1946-47.)
- Education 283-84 *Employee Training* (3-3) Bish  
Organization and administration of employee-training programs in accordance with operating needs; orientation, supervisory, and skills training; coordination of training with other personnel functions; evaluation of training. Field work is required. Thurs., 7:35 P.M. Conference hour: Thurs., 6:30 P.M.
- Education 287-88 *Clinical Study of Reading Problems* (3-3) Hilder  
For advanced students. Diagnostic work under supervision in the Reading Clinic. Admission by permission of the instructor. Sat., 11:10 A.M. to 1:00 P.M. Individual conferences to be arranged.
- Education 289-90 *Teacher Education* (3-3) Hall  
Historical background of teacher education; present trends and modifications in the United States. Thurs., 7:35 P.M. Conference hour: Thurs., 6:30 P.M.

Education 291 *Planning the School Plant* (3) Hamon  
Selection of sites; evaluation of existing buildings; utilization of present facilities; adaptation to curricular needs; building, operation, and maintenance problems. Sat., 11:10 A.M. Conference hour: Sat., 10:10 A.M.

Education 293-94 *Research* (3-3) The Staff  
Individual research under the guidance of a member of the staff. Program and conferences arranged with an instructor.

Education 295 *Educational Research Methods and Procedures* (3) The Staff  
Required of all A.M. candidates following Plan 2. Tues. and Thurs., 6:10 P.M. Conference hours: Tues. and Thurs., 5:10 P.M.

Education 295x *Educational Research Methods and Procedures* (3) The Staff  
Same as Education 295, but offered winter term. Fri., 5:15 P.M. Conference hour: Fri., 8:00 P.M.

Education 297-98 *Thesis* (3-3) The Staff  
Required of all A.M. candidates following Plan 1. Hours to be arranged.

Psychology 227 *Seminar: Educational and Vocational Guidance* (3) Dreese  
An introduction to the techniques of educational and vocational guidance and the application of these procedures in various types of guidance agencies. Tues., 7:35 P.M.

Psychology 228 *Seminar: Techniques of Counseling* (3) Dreese  
A detailed study of counseling techniques and the types of counseling problems likely to confront teachers, employee counselors, vocational counselors and veterans' advisers. Tues., 7:35 P.M.

Psychology 229 *Seminar: Occupational and Educational Information* (3) Davis  
Designed to acquaint vocational and educational counselors with the basic occupational and educational information necessary in counseling. Sources of data and techniques of collecting, analyzing, and disseminating for purposes of guidance. Thurs., 7:35 P.M.

Psychology 231 *Test Construction* (3)  
The principles underlying the construction, evaluation, and standardization of psychological, educational, and vocational tests, with practice in the construction of tests. Prerequisites: an elementary course in tests and measurements and an elementary course in statistics. Mon., 8:10 P.M.

Psychology 232 *Research: Test Construction* (3) Hunt  
Individual projects in construction and evaluation of psychological, educational, or vocational tests. Prerequisite: Psychology 131. Hours to be arranged.



## SCHEDULE OF WEEK-END COURSES

## FALL TERM, 1946-47

## Friday Evening Classes

5:15 to 7:15 P.M.

Education 205 The Curriculum  
Physical Education for Women 135 Survey of Dance History  
and Dance Forms

7:30 to 9:30 P.M.

Education 221 Early Childhood Education  
Education 255 Secondary Education

## Saturday Morning Classes

9:10 to 11:00 A.M.

Education 123 Reading Problems  
Education 141 Teaching Art  
Education 259 Administration of Secondary Education

11:10 A.M. to 1:00 P.M.

Education 287 Clinical Study of Reading Problems  
Education 209 Child Growth and Development  
Education 291 Planning the School Plant

## WINTER TERM, 1946-47

## Friday Evening Classes

5:15 to 7:15 P.M.

Education 206 The Curriculum  
Education 295x Educational Research Methods and  
Procedures  
Physical Education for Women 136 Survey of Dance History  
and Dance Forms

7:30 to 9:30 P.M.

Education 222 Early Childhood Education  
Education 252 Guidance in Secondary Schools  
Education 256 Secondary Education

## Saturday Morning Classes

9:10 to 11:00 A.M.

Education 124 Reading Problems  
Education 142 Teaching Art  
Education 230 Administration and Supervision of Elementary Education  
Education 260 Administration of Secondary Education

11:10 A.M. to 1:00 P.M.

Education 210 Child Growth and Development  
Education 288 Clinical Study of Reading Problems



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THE LAW SCHOOL

1946-47





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# CALENDAR

1946-47

Date	Day	Occasion
<b>1946</b>		
<b>Fall Term:</b>		
Sept. 25-28.....	Wednesday through Saturday .....	Registration for the fall term
Sept. 30.....	Monday .....	Fall term begins
Nov. 28.....	Thursday .....	Thanksgiving Day. Holiday
Dec. 23-Jan. 1....	Monday through Wednesday .....	Christmas recess
<b>1947</b>		
Jan. 2.....	Thursday .....	Classes resume
Jan. 20-30.....	Monday through Thursday .....	Final examinations
Jan. 29 and 30....	Wednesday and Thursday .....	Registration for the winter term
<b>Winter Term:</b>		
Jan. 31.....	Friday .....	Winter term begins
Feb. 22.....	Saturday .....	Winter Convocation. Holiday
April 4 and 5....	Friday and Saturday.	Easter recess
May 14-24.....	Wednesday through Saturday .....	Final examinations
May 25.....	Sunday .....	Baccalaureate sermon
May 28.....	Wednesday .....	Commencement
<b>Summer Term:</b>		
June 2.....	Monday .....	First session begins
July 4.....	Friday .....	Independence Day. Holiday
July 26.....	Saturday .....	First session ends
July 28.....	Monday .....	Second session begins
Sept. 1.....	Monday .....	Labor Day. Holiday
Sept. 20.....	Saturday .....	Second session ends
Sept. 25-27.....	Thursday through Saturday .....	Registration for the Fall Term of the academic year 1947-48

THE UNIVERSITY



## THE BOARD OF TRUSTEES

The Board of Trustees of the University is composed of the President of the University ex officio and the following persons by election:

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\* Nominated by the alumni



## OFFICERS OF ADMINISTRATION

### THE UNIVERSITY

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Alan Thomas Deibert, A.M., *Adviser to Students from Foreign Countries*

### THE LAW SCHOOL

William Cabell Van Vleck, A.B., LL.B., S.J.D., *Dean of the Law School*  
Anna Marie Bischoff, A.B., *Secretary to the Dean of the Law School*  
Ella Cooper Thomas, LL.B., *Assistant Librarian in Charge of the Law Library*

## THE UNIVERSITY

### HISTORY AND ORGANIZATION

The idea of a university in the Capital of the Nation was sponsored by George Washington, who during his public life urged the establishment of such an institution and who in his will left fifty shares of stock in the Potomac (Canal) Company for the endowment of a university to be established in the District of Columbia "to which the youth of fortune and talents from all parts thereof might be sent for the completion of their Education in all the branches of polite literature;—in arts and Sciences,—in acquiring knowledge in the principles of Politics & good Government".

The George Washington University operates under a charter granted by an act of Congress of February 9, 1821, to Columbian College in the District of Columbia. In 1873 the name was changed to "Columbian University" and in 1904 to "The George Washington University".

The University as it is now organized consists of the Junior College, comprising the work of the freshman and sophomore years; Columbian College, the senior college of liberal arts, which offers work leading to the Bachelor's and Master's degrees; the Graduate Council, which offers work leading to the degree of Doctor of Philosophy; the professional schools, which include Medicine, Law, Engineering, Pharmacy, Education, and Government; the Division of University Students; the Division of Special Students; the Division of Extension; the Inter-American Center; and the Summer Sessions.

### ACADEMIC STATUS

The George Washington University is on the approved list of the Association of American Universities, the standard accrediting body for the United States. This fact not only assures to students the academic standards of this accrediting body, but also is important to those who desire to transfer credits from one institution to another.

The University is also accredited by its regional accrediting agency, the Middle States Association of Colleges and Secondary Schools, and is on the approved list of the American Association of University Women.

The Law School is a charter member of the Association of American Law Schools and is approved by the Council of Legal Education of the American Bar Association.

#### LOCATION

The George Washington University is in downtown Washington, four blocks west of the White House and east of the Potomac River with its extensive parkway. Within a few blocks are the buildings housing the offices of many of the departments of the Government, including the Department of State, the Department of the Treasury, the Department of War, the Department of Justice, the Department of the Navy, the Department of the Interior, the Department of Agriculture, the Department of Commerce, and the Department of Labor. The Corcoran Gallery of Art, the Pan American Union Building, and the National Academy of Sciences are also near by; and the Capitol, the Library of Congress, the National Archives, and National Gallery of Art are readily accessible.

THE LAW SCHOOL





## THE LAW SCHOOL

### EMERITUS FACULTY

#### WALTER COLLINS CLEPHANE

##### *Professor Emeritus of Law*

LL.B. 1880, LL.M. 1890, LL.D. 1932, The George Washington University. Member 1899- , Committee on Admissions and Grievances, District Court of the United States for the District of Columbia; Member 1906- , Conference of Commissioners on Uniform State Laws. In Practice of Law 1889- , now Member of Clephane, Latimer and Hall, Washington (D. C.); Instructor in Moot Court 1899-1900, Professor of Law 1900-36, Professor Emeritus of Law 1936- , The George Washington University.

#### GILBERT LEWIS HALL

##### *Professor Emeritus of Law*

A.B. 1892, Swarthmore College; LL.B. 1918, The George Washington University. Teacher and Division Superintendent of Schools 1901-10, P. I.; with U. S. Indian Service 1912-18; in Practice of Law with Clephane and Latimer, Washington (D. C.) 1918-36; Member 1936- , Clephane, Latimer and Hall, Washington (D. C.); Lecturer in Law 1920-38, Adjunct Professor of Law 1938-42, Professor Emeritus of Law 1942- , The George Washington University.

#### JOHN WILMER LATIMER

##### *Professor Emeritus of Law*

LL.B. 1897, The George Washington University. In Practice of Law 1906-13, 1917- ; Judge 1913-17, Juvenile Court of the District of Columbia; Member 1918- , Clephane, Latimer and Hall, Washington (D. C.); Clerk of the Moot Court 1904-7, Instructor in Law 1908-9, Assistant Professor of Law 1910-13, Professor of Law 1913-42, Professor Emeritus of Law 1942- , The George Washington University.

#### WALTER LEWIS MOLL

##### *Professor Emeritus of Law*

A.B. 1898, Concordia College (Ind.); Graduate 1899, Concordia Theological Seminary (St. Louis); LL.B. 1923, Indiana University; S.J.D. 1924, Harvard University. University Scholar 1902-3, University Fellow 1903-4, Johns Hopkins University; Professor of English 1904-9, Professor of Greek 1909-20, Concordia College (Ind.); in Practice of Law with Olds & Thomas, Fort Wayne (Ind.) 1920-22; Instructor in Commercial Law 1920-21, Instructor in Law 1921-23, Indiana University; Professor of Law 1924-43; Professor Emeritus of Law 1943- , The George Washington University.

#### WENDELL PHILLIPS STAFFORD

##### *Professor Emeritus of Law*

LL.B. 1883, Boston University; A.M. 1901, Dartmouth College; LL.D. 1905, Litt.D. 1929, University of Vermont; LL.D. 1906, Georgetown University; Litt.D. 1910, Middlebury College; Litt.D. 1916, The George Washington University. Judge 1900-1904, Supreme Court of Vermont; Associate Justice 1904-31, Supreme Court of the District of Columbia; Lecturer on Agency 1904-6, Georgetown University; Professor of Law 1908-29, Professor Emeritus of Law 1929- , The George Washington University.

### ACTIVE FACULTY

#### CLOYD HECK MARVIN

##### *President of the University*

A.B. 1915, A.M. 1916, University of Southern California; A.M. 1917, Ph.D. 1919, Harvard University; LL.D. 1923, University of New Mexico. Instructor 1914-15, University of Southern California; Assistant Professor 1919-20, Associate Professor of Commerce, Assistant Director, and Dean 1920-22, University of California at Los Angeles; Professor of Economics, President 1922-27, University of Arizona. President 1927- , The George Washington University.

**WILLIAM CABELL VAN VLECK***Professor of Law; Dean of the Law School*

A.B. 1908, LL.B. 1911, The George Washington University; S.J.D. 1921, Harvard University. Member Summer Sessions Faculty 1924 and 1929 at University of Michigan, 1927 at Stanford University, 1934 at University of Chicago, one of the Advisers to the Reporter on Conflict of Laws 1926-34, American Law Institute; Research Fellow 1919-21, Harvard University Law School; Instructor in Law 1912-16, Assistant Professor of Law 1916-19, Professor of Law 1919-21, Secretary of the Law School 1912-20, Acting Dean of the Law School 1923-24, Dean of the Law School 1924-28, The George Washington University.

Subjects: Conflict of Laws, Torts

**LEVI RUSSELL ALDEN***Adjunct Professor of Law*

A.B. 1903, A.M. 1904, LL.B. 1906, The George Washington University, A.M. 1907, Harvard University. In Practice of Law 1908-11, Washington (D. C.); Assistant in History 1911-14, Instructor in History 1914-16, Assistant Professor of History 1916-20, Assistant Professor of Commercial Law 1914-22, Professor of Commercial Law 1922-28, Lecturer on Admiralty 1920-38, Adjunct Professor of Law 1938-41, The George Washington University.

Subject: Admiralty

**CARVILLE DICKINSON BENSON***Professor of Law*

A.B. 1920, Johns Hopkins University; LL.B. 1921, S.J.D. 1926, Harvard University. In Practice of Law with Benson, Nick & Rowe, Baltimore (Md.) 1923-25; Assistant Professor of Law 1926-29, Emory University; Assistant Professor of Law 1929-31, Associate Professor of Law 1931-33, Professor of Law 1933-41, The George Washington University.

Subjects: Judicial Process, Property, Wills

**CONWAY PEYTON COE***Adjunct Professor of Law*

A.B. 1918, Randolph-Macon College; LL.B. 1922, The George Washington University. Assistant Examiner 1918-21, U. S. Patent Office; in Practice of Law 1923-33; U. S. Commissioner of Patents 1933-41; Adjunct Professor of Law 1937-41, The George Washington University.

Subject: Patent Moot Court

**CHARLES SAGER COLLIER***Professor of Law*

A.B. 1911, LL.B. 1915, S.J.D. 1932, Harvard University. In Practice of Law with Rounds, Schurman and Dwight (later Hughes, Schurman and Dwight), New York City 1915-16; Member Staff 1918-19, Cornell University Law School; Ezra Ripley Thayer Teaching Fellow 1921-22, Harvard University Law School; Member Faculty, Second Semester 1935-36, University of Wisconsin Law School; Assistant Professor of Law 1918-21, Acting Dean of the Law School 1930-31, Professor of Law 1921-31, The George Washington University.

Subjects: Constitutional Law, Jurisprudence, Public Utilities, Taxation

**WILLIAM RANDALL COMPTON***Associate Professor of Law*

LL.B. 1928, Union University (N. Y.); M.B.A. 1931, Harvard University; J.S.D. 1931, Cornell University. Clerk to Committee on Labor and Industry 1925-28, New York State Senate; Dean and Professor of Business Administration 1931-32, Green Mountain Junior College; in Practice of Law with McDowell and McDowell 1933-35, Elmira (N. Y.); Assistant Professor of Law 1935-40, Associate Professor of Law 1940-41, The George Washington University.

**GEORGE BOWDOIN CRAIGHILL***Adjunct Professor of Law*

A.B. 1903, University of the South; LL.B. 1906, Georgetown University. Member McKenney, Flannery and Craighill; Lecturer 1914-24, Washington College of Law; Adjunct Professor of Law 1939-41, The George Washington University.

Subject: Moot Court

**JAMES FORRESTER DAVISON***Professor of Law; Editor-in-Chief of the Law Review*

A.B. 1921, LL.B. 1923, Dalhousie University; LL.M. 1924, S.J.D. 1929, Harvard University. Lecturer in Roman Law and Jurisprudence, 1924-28, Assistant Professor of Roman Law and Jurisprudence 1928-29, University of Toronto; Brandeis Research Fellow 1928-29, Research Fellow 1929-30, Harvard University; Assistant Professor of Law 1930-36, Associate Professor of Law 1936-43, Professor of Law 1943-45, The George Washington University; Editor-in-Chief 1946-, *The George Washington Law Review*.

Subjects: Admiralty Law, Legislation

**JUSTIN LINCOLN EDGERTON***Lecturer in Law; Clerk of the Moot Court*

A.B. 1929, LL.B. 1931, The George Washington University. In Practice of Law 1931-39, with Frank F. Nesbit, Washington (D. C.); Member 1939-, Nesbit, Pledger and Edgerton, Washington (D. C.); Clerk of the Moot Court 1936-, Associate in Law 1936-43, Lecturer in Law 1943-. The George Washington University.

Subject: Moot Court

**WILLIAM THOMAS FRYER***Professor of Law*

A.B. 1922, LL.B. 1924, The George Washington University; J.D. 1925, Yale University. In Practice of Law with William Pepper Constable, Baltimore (Md.) 1924-26; Assistant Professor of Law 1926-29, Associate Professor of Law 1929-40, Professor of Law 1940-. The George Washington University.

Subjects: Property, Civil Procedure, Evidence

**JAMES ROBERT KIRKLAND***Adjunct Professor of Law*

A.B. 1927, LL.B. 1928, LL.M. 1929, The George Washington University. Assistant U. S. Attorney for the District of Columbia 1928-34, Member 1938-, Cromelin, Townsend, Camalier and Kirkland, Washington (D. C.); Lecturer in Law 1934-45; Adjunct Professor of Law 1945-, The George Washington University.

Subject: Criminal Law

**JOHN ALBERT MCINTIRE***Professor of Law*

A.B. 1928, Wittenberg College; LL.B. 1931, University of Cincinnati; Research Fellow 1935-36, Harvard University Law School; Editor 1937-41, *Municipal Law Journal*; Executive Director 1937-41, National Institute of Municipal Law Officers; Faculty Editor-in-Chief 1932-42, *The George Washington Law Review*; Instructor in Law 1931-33, Assistant Professor of Law 1933-36, Associate Professor of Law 1938-46, Professor of Law 1946-, The George Washington University.

**CLARENCE ALTHA MILLER***Lecturer in Law*

LL.B. 1919, LL.M. 1921, The George Washington University. General Counsel, The American Short Line Railroad Association; Lecturer in Law 1923-, The George Washington University.

Subject: Interstate Commerce Law and Procedure

**JAMES WARD MORRIS***Adjunct Professor of Law*

A.B. 1912, University of North Carolina. In Practice of Law 1913-33; Special Assistant to the Attorney General 1933-34; Assistant Attorney General of the United States 1935-39; Associate Justice 1939-, United States District Court for the District of Columbia; Adjunct Professor of Law 1939-, The George Washington University.

Subject: Moot Court

**JAMES OLIVER MURDOCK***Professor of Law*

Ph.B. 1916, University of Chicago; LL.B. 1924, Harvard University. Student, Summer 1923, Academy of International Law at The Hague. In Practice of Law with Cadwallader, Wickersham and Taft 1924-25, New York City; Assistant U. S. Attorney 1925-27, Southern District of N. Y.; Assistant Solicitor and Assistant Legal Adviser 1927-36, U. S. Dept. State; Counsel for the United States 1929-33, International Joint Commission, United States-Canada; Secretary to American Delegation 1928-29, International Conference of American States on Conciliation and Arbitration; Counsel for United States 1932, United States-Sweden Arbitration; in Private Practice of Law 1937-; Lecturer in Law 1930-41, Adjunct Professor of Law 1941-46, Professor of Law 1946-, The George Washington University.

Subjects: Comparative Law, International Law, Criminal Law



**SAUL CHESTERFIELD OPPENHEIM***Professor of Law*

A.B. 1918, A.M. 1920, Columbia University; J.D. 1926, S.J.D. 1929, University of Michigan. Instructor in Economics 1921-26, Teaching and Research Assistant to Dean of Law School 1926-27, University of Michigan; Assistant Professor of Law 1927-30, Associate Professor of Law 1930-33, Professor of Law 1930-33, The George Washington University; Editor-in-Chief 1942-46, *The George Washington Law Review*.  
 Subjects: Negotiable Instruments, Sales, Trade Regulation

**HECTOR GALLOWAY SPAULDING***Professor of Law*

B.S. 1900, University of Minnesota; LL.B. 1903, S.J.D. 1924, Harvard University. Acting Assistant Professor of Law 1914-15, Stanford University; in Practice of Law with Ritch, Woodard, Bovee and Butler, New York City, with Cassaday, Butler, Lamb and Foster, Chicago. Assistant Professor of Law 1920-22, Professor of Law 1922-23, The George Washington University.  
 Subjects: Business Associations, Contracts, Equity, Property

**LOYD HALL SUTTON***Adjunct Professor of Law*

B.S. 1908, Massachusetts Institute of Technology; LL.B. 1913, The George Washington University. Assistant Instructor in Engineering 1908-9, Massachusetts Institute of Technology; Assistant Examiner 1909-16, U. S. Patent Office, in Practice of Law 1916-17; Member 1927-33, Cannon, Kerkam & Sutton; Instructor 1914-17, Associate Professor 1917-35, Adjunct Professor of Law 1935-37, The George Washington University.  
 Subject: Patent Law

**CHESTER CHARLES WARD***Associate Professor of Law*

B.S. 1931, Georgetown University; LL.B. 1935, LL.M. 1946, The George Washington University. Legal Editor 1933-35, *U. S. Law Week*; Associate Editor 1937-40, *Labor Relations Reporter*; Instructor in Law 1935-37, Assistant Professor of Law 1937-40, Associate Professor of Law 1940-47, The George Washington University.

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**GENERAL INFORMATION****INTRODUCTORY**

The George Washington University Law School, established in 1826, discontinued and reorganized in 1865, is the oldest law school in the District of Columbia. Its course of instruction is planned to fit its

\* The President of the University and the Dean of the Law School are ex officio members of the council.

graduates for the practice of law in any of the states of the United States. It is also designed to prepare students for public service as lawyers in the Federal Government or the governments of the states. In 1900 the School took part in the organization of the Association of American Law Schools and it has been a member of the Association since that time. The School is approved by the Council of Legal Education of the American Bar Association.

#### ORGANIZATION OF THE ACADEMIC YEAR

The work of the year is organized into three terms known as the fall term, winter term, and summer term. The work undertaken in any one term may be completed by the end of that term. The summer term is divided into two sessions so that work undertaken during one session may be completed during that session.

#### THE LIBRARY

The Law Library of 25,000 volumes contains the official reports of the decisions of the courts of last resort of all the states prior to the National Reporter System and of fourteen states complete to date; the National Reporter System, complete; the reports of the United States Supreme Court and lower federal courts, and the reports of federal administrative agencies; Shepard's Citations for the units of the Reporter System; the English Reprint and English Law Reports; the United States Statutes; the United States Code, Annotated, and the Federal Code, Annotated; reasonably complete sets of statutes of all of the states; the English statutes; the principal English and American digests and encyclopedias; collections of special reports and annotated cases; and the leading textbooks, casebooks, and legal periodicals.

The Library is open from 9:00 A.M. to 10:00 P.M. each class day (Saturday, 9:00 A.M. to 5:00 P.M.), and from 2:00 to 6:00 P.M. on Sunday.

#### THE LAW REVIEW

*The George Washington Law Review*, published by the University, is edited by the Faculty and students of the Law School. It is devoted exclusively to state and federal public law. The location of the University in the National Capital, where the primary sources of federal public law may be observed in operation, affords an unexcelled opportunity for specialization in this field.

The *Review* is edited by a faculty editor-in-chief, a faculty board of associate editors, a board of departmental advisory editors, and a board of student editors. The student editors are chosen each year on the basis of scholarship.

### RESEARCH IN PUBLIC LAW

Washington, the capital of the Nation, furnishes unsurpassed advantages for research in the fields of public law. In it are the offices of the major executive departments, the Congress, the Supreme Court of the United States, and four lower federal courts. In the executive departments and among the many independent establishments of the Federal Government there have been estimated to be between seventy-five and one hundred agencies, the activities of which involve the various branches of public law, particularly administrative law. The student of public law can study at first hand the work of these administrative agencies. He also has available as sources for investigation their records of administrative adjudications.

Research in public law will be conducted under the supervision of members of the faculty. The purpose of this research is to furnish means for training specialists in public law, either as government lawyers or as lawyers representing individuals or corporations in cases in which the Government is a party, and to assist in the analysis, clarification, formulation, and improvement of public law, substantive and procedural.

Candidates for the graduate degrees in the Law School and seniors who are candidates for the degree of Juris Doctor are eligible to pursue this work. Other students may be admitted with the special permission of the professor in charge.

### COURSE OF STUDY FOR FOREIGN LAWYERS

This course of study is designed to meet the needs of lawyers who come from countries, the legal systems of which are based on the Roman or Civil Law. It attempts to provide for such students a course sufficient to enable them to acquire an understanding of the fundamentals of the common law so that they may work intelligently with common law materials and common law practitioners. In this program the students are not assigned to special classes but work in association with other students in the common law subjects. No fixed program of required courses is attempted but for each student is worked out a program best adapted to his individual needs.

### THE STUDENT BAR ASSOCIATION

Every student in the Law School is required to be a member of the Student Bar Association. This is organized to enable the student to become better acquainted with problems of the profession, to develop better professional ideals, and to bring about closer contact with members of the profession engaged in active practice of the law.

The work of the Student Bar Association is carried on by various committees and by group and general meetings of a professional and



social nature. From time to time lectures are given by outstanding authorities on legal and professional problems.

Each member of the Student Bar Association receives a subscription to *The George Washington Law Review*.

#### PRACTICE AND PRACTICE COURT

The curriculum is planned to include such training in the fundamentals of practice as is feasible in a law school. Classroom instruction is conducted in the theories of pleading and procedure, trial and appellate practice, and evidence. This instruction includes grounding in the principles of the new Federal Rules of Civil Procedure. In addition each senior student is required to participate in the work of the practice or Moot Court. This includes trying a specified number of cases, both as a senior counsel and junior counsel. For students who are planning to practice patent law, a special section of the court is devoted exclusively to the trial of patent cases.

#### ORDER OF THE COIF

The Order of the Coif, a national honor society with chapters in thirty-seven law schools, aims "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship". The George Washington University Chapter was established in 1926. Members are elected each year from the highest-ranking 10 per cent of the graduating class of the Law School.

#### ADMISSION

##### APPLICATION FOR ADMISSION

An applicant for admission must obtain from the Office of the Director of Admissions an application blank which he must fill out completely and return.

A recent photograph, with signature, of the applicant must be attached to the blank.

*To insure prompt action, applications should be filed not later than July 1 for the fall term, January 1 for the winter term, and May 1 for the summer term.*

The applicant must request the registrar of each higher institution previously attended to mail directly to the Office of the Director of Admissions the transcript of his record, *even though credits were not earned*, together with an honorable dismissal from the institution last attended. The student must be in good standing as to scholarship and conduct, and must be eligible to return to the previously attended institutions in the term for which he or she seeks admission to The George Washington University.



### For the Degrees in the Professional Course

*Bachelor of Laws.*—Men and women will be admitted as candidates for this degree provided there have been filed in the Office of Admissions official transcripts of record showing the satisfactory completion of not less than two years of college work which is defined as one-half of the four-year course of study acceptable for a Bachelor's degree in an approved college or university. Students in The George Washington University preparing for admission to the Law School must complete satisfactorily the requirements for the Associate in Arts degree of the Junior College or attain full junior standing in the School of Engineering of this University. The Junior College curricula in physical education and home economics are not acceptable for this purpose. This requirement has been adopted for the period of the present national emergency.

*Juris Doctor.*—The degree of Bachelor of Arts or the equivalent from an approved college or university is required.

### ADVANCED STANDING

Advanced standing toward the degree of Bachelor of Laws may be granted for work successfully completed in other law schools which are members of the Association of American Law Schools.

Applicants for admission with advanced standing must file certified transcripts of record showing high school, college, and law credits. The right is reserved to refuse such credit, in whole or in part, or to allow it conditionally or after examination, and credit given may be withdrawn for subsequent poor work. No student admitted with advanced standing will be recommended for the degree of Bachelor of Laws until he has completed in this School at least one full year of residence and passed successfully twenty-eight credit hours with the required average for the degree. No student will be admitted who has been in attendance at another law school and who is ineligible, because of poor scholarship, to return to that school.

Students planning to attend summer school sessions at other law schools and desiring to use credits obtained at such schools in their course at this Law School must first have the courses they wish to take approved by the Dean. In no event will credits be recognized in excess of those which might be obtained in a similar period in this School.

Advanced standing toward the degree of Juris Doctor for work in other law schools will not be granted.

### For the Degrees in the Graduate Course

*Master of Laws.*—Applicants must show the satisfactory completion of not less than two years of college work in an approved college or university and must have received the degree of Bachelor of Laws, or an equivalent degree, from an approved law school.

**Master of Comparative Law.**—The following are required: (1) The successful completion of and graduation from a course in arts, philosophy, letters, or sciences, equivalent to graduation from a gymnasium, lycee, or liceo (junior college); and (2) graduation in law from a recognized foreign university where the legal training was in Civil Law.

**Doctor of Juridical Science.**—The following are required: (1) the degree of Juris Doctor from this Law School; or (2) the degree of Bachelor of Arts from an approved college, the degree of Bachelor of Laws or the equivalent, earned with high rank, from an approved law school, outstanding capacity for scholarly work in the field of law, and acceptance as a candidate by the Dean's Council of the Law School.

#### Unclassified Students

A person eligible for admission to regular standing but not a candidate for a degree may, at the discretion of the Dean, be admitted as an unclassified student.

A person who is in good standing as a candidate for a degree in another approved law school may, at the discretion of the Dean, be admitted as an unclassified student. Work taken by an unclassified student will not be accepted for credit toward a degree at this Law School.

#### REGISTRATION

Before attending classes each student must present himself in person for registration. No student will be registered in the Law School until proper credentials have been filed and approved (see "Admission", above).

Registration is for the term or session only.

A late-registration fee of \$5 will be charged each student who is permitted to register after the regular registration days.

Registration may be changed only with the permission of the Dean.

#### FEES AND FINANCIAL REGULATIONS

University fee, for each term or for any part thereof.....	\$8.00
For each session of the summer term or any part thereof.....	4.00
Tuition fee, for each credit hour.....	10.00
For the degree of Doctor of Juridical Science:	
For work leading to and including the final examinations.....	300.00
Student Bar Association fee, for each term, or any part thereof except the summer term.....	2.00
Graduation fee.....	20.00
Fee for special examinations, for each subject.....	5.00
Late-registration fee, charged each student who fails to register within the designated period.....	5.00
Service fee for late payment of tuition, see "Payment of Fees".....	1.00
Reinstatement fee, charged each student who is reinstated after being suspended for delinquency in fees.....	5.00
Fee for printing and filing summary of doctoral thesis.....	50.00

## UNIVERSITY FEE

Payment of the University fee covers all of the expenses incident to registration and, in addition, secures the following University privileges: (1) the issuance of three certified transcripts of record, if and when desired; (2) the services of the Placement Office; (3) the use of University library facilities, except as otherwise designated; (4) gymnasium privileges; (5) admission to all athletic contests, unless otherwise specified; (6) subscription to the *University Hatchet*, the student newspaper; (7) admission to University debates; (8) medical attention and hospital services as described under "Health Administration", page 23. These privileges, however, with the exception of the issuance of transcripts, terminate, and a student is no longer in residence, when he withdraws or is dropped from the University.

## PAYMENT OF FEES

All fees are payable at the Office of the Cashier, 725 Twenty-first Street NW. No student is permitted to complete registration or to attend classes until all fees are paid. Fees for each term are due and payable in advance at the time of registration.

Subject to the approval of the Comptroller, a student may sign a contract for term charges, except for the University fee and other fees payable in advance, permitting payments as follows:

*Fall Term.*—One third at the time of registration, plus the University fee and deposits; one third on November 4; one third on December 3.

*Winter Term.*—One third at the time of registration, plus the University fee and deposits; one third on March 3; one third on April 3.

A student who fails to meet payments when due but who pays his fees on or before the tenth day of the month in which payment is due is charged a service fee of \$1. A student who fails to meet payments by the tenth day of the month in which payment is due will be suspended and may not attend classes until he has been officially reinstated and has paid all accrued fees and a reinstatement fee of \$5. A suspended student may not be reinstated for the term after two weeks from the date of suspension. Applications for reinstatement are to be made to the Dean.

## WITHDRAWALS AND REFUNDS

Application for withdrawal from the University or for change in class schedule must be made in person or in writing to the Dean. Notification to an instructor is not an acceptable notice.

In authorized withdrawals and changes in schedules, financial adjustments will be made as follows:

*Fall Term.*—Withdrawal dated on or before October 31, cancellation of the second and third payments; withdrawal dated on or before No-



vember 30, cancellation of the third payment. No refund or reduction will be allowed on a withdrawal dated subsequent to November 30.

*Winter Term.*—Withdrawal dated on or before February 28, cancellation of the second and third payments; withdrawal dated on or before March 31, cancellation of the third payment. No refund or reduction will be allowed on a withdrawal dated subsequent to March 31.

In no case will the University fee or any part of an initial payment of fees be refunded, and in no case will tuition be reduced or refunded because of nonattendance upon classes.

Payment applies only to the term for which a registration charge is incurred and in no case will this payment be credited to another term.

Authorization to withdraw and certification for work done will not be given a student who has not a clear financial record.

#### SCHOLARSHIPS, PRIZES, LOAN FUNDS

*Charles Worthington Dorsey Memorial Scholarship.*—This scholarship, established as a memorial to Charles Worthington Dorsey, Bachelor of Laws '81, Master of Laws '82, is awarded upon the recommendation of the Faculty of the Law School to a needy and promising graduate of Columbian College or other division of the University, with a Bachelor of Arts or other equivalent degree, who has maintained an average of *B* as an undergraduate student and who desires to pursue the study of law as a full-time student. The scholarship covers tuition for the course leading to the first degree from the Law School, Bachelor of Laws or Juris Doctor, provided that the holder maintains an average of *B*. The right is reserved to suspend the benefits of the scholarship for cause at any time. The scholarship is awarded ordinarily once every three years.

All other scholarships are administered by the University Committee on Student Loans and Scholarships. Application should be made to the Registrar of the University.

The following prizes are awarded annually in the Law School:

*Ellsworth Prize.*—The Ellsworth Prize of \$25, established by the late Mr. Fritz von Briesen, is awarded to the student doing the best work in the subject of **Patent Law Practice**.

*John Bell Larner Prize.*—This prize, established by the bequest of John Bell Larner, consists of a medal which is awarded annually to that member of the graduating class in the Law School who attains the highest average grade in the entire course for the degree of Bachelor of Laws.

*John Ordronaux Prizes.*—These prizes were established in 1909 by the bequest of John Ordronaux. The amount of \$35 is awarded annually to the student in the Law School who has attained the highest average grade in the first-year, full-time, regular course; and \$35 to the student who has attained the highest average grade in the second-year, full-time, regular course.



Through the generosity of friends of the University a number of loan funds are available to students in the Law School. Among them is the Henry Strong-William A. Maury Loan Fund established by the Henry Strong Educational Foundation in memory of Henry Strong and William A. Maury. Application for loans should be made to the Comptroller of the University.

### REGULATIONS

*Students in the Law School are subject to, and are expected to familiarize themselves with, the general University regulations stated in the University Catalogue.*

#### HOURS OF INSTRUCTION

Students without substantial outside employment may take a full-time program of studies between the hours of 9:00 A.M. and 1:00 P.M.

Students with substantial outside employment may take a limited program of studies in the evening classes which are held from 6:20 to 8:00 P.M.

#### ATTENDANCE

Regular attendance on classes is required and is necessary for successful work. A student who is deficient in class attendance in any subject may, by action of the Dean's Council, be barred from taking the examination in that subject.

#### RESIDENCE REQUIREMENTS

A year's attendance in the evening classes is counted as residence for three fourths of a year. A student admitted with advanced standing must complete at least one year of residence in this School and pass twenty-eight credit hours with the required average for the degree.

#### GRADES

At the end of each term each student is given a letter grade in each subject completed and a letter grade indicating the average for the term.

Grades are indicated by the letters *A*, excellent; *B*, good; *C*, satisfactory; *D*, poor—below standard for graduation; and *F*, failed.

The grades *A*, *B*, *C*, and *D*, mean that the work has been successfully completed and credit given for the subjects.

*F*, failed, means that no credit will be given. To obtain credit the student must repeat the subject; but a student who has obtained an average of *C* in the work of the academic year and received a grade of *F* in only one subject may take the next regular examination in that subject, and if on such reexamination he obtains a passing grade he will be given credit in the subject.

### EXAMINATIONS

Written examinations are held at the end of each term in all subjects. Every student is required to take the regular examinations in the subjects pursued, unless excused. No excuse for absence will be granted except by the Dean and then only for illness or other emergency. Application for excuse must be made in writing not later than one month after the date of the examination. A student thus excused may take the next regularly scheduled examination in the subject for which the excuse has been granted.

No special examinations will be given; except that, upon written application to the Dean's Council, showing sufficient cause, a candidate for a degree at a convocation before the next regular examination, if he would be entitled to take a postponed examination, may, at the discretion of the Dean's Council, be given a special examination.

### EXCLUSION AND PROBATION FOR POOR SCHOLARSHIP

A student who during an academic year fails in courses aggregating eight or more credit hours will be excluded. Such a student is not eligible to be registered in the Law School or to attend classes in the next academic year. He may, however, be admitted to the regular examinations in that academic year in those subjects in which he has made a grade below passing, and if he receives a grade of passing in these subjects with an average sufficient to make his general average not less than *C*, he will be reinstated at the beginning of the academic year next succeeding the passing of these examinations.

A student not subject to exclusion under the foregoing rule who at the end of an academic year has failed to maintain a general average of at least *C*, will be on probation during the next academic year. A student on probation may at the discretion of the Dean be required to reduce his program of study. A student on probation will be excluded at the end of the probationary year unless he has made grades sufficient to give him a general average of at least *C*.

The general average of a student includes all the grades in all the subjects taken while he is in the Law School working for a particular degree. When a subject is repeated or a reexamination is taken, both the first grade and the subsequent grade or grades are counted in the general average.

In special cases in which it is clear that the student's failure does not indicate lack of ability to pursue the study of law, the student who has become subject to exclusion may be readmitted by vote of the Dean's Council of the Law School.

No student is put on probation or excluded because of the work of one term only, or as the result of a program of less than four hours a week during the academic year.

### CLASSIFICATION OF STUDENTS

Students are divided into classes on the completion of credit hours as follows: first year, one through twenty-eight; second year, twenty-nine through fifty-six; third year, fifty-seven or more.

### RIGHT TO DROP STUDENTS

The right is reserved by the University to drop any student from the University, or from any class or classes, whenever, in the interest of the student or the University, the University Administration deems it advisable to do so.

### STUDENT LIFE

#### LIVING ACCOMMODATIONS

*Women Students.*—Women students under twenty-one years of age who carry twelve or more credit hours of academic work must have their residences approved by the Director of Activities for Women before their registrations can be completed.

Application for room reservations should be made well in advance. Forms for applications, together with detailed information, may be obtained from the Director of Activities for Women. The prices stated below are subject to change without notice.

The Hattie M. Strong Residence Hall: single rooms with breakfast and dinner are \$55 a month; double rooms with the same service are \$48 a month a person.

Staughton Residence Hall: single rooms are \$27 a month; double rooms are \$20 a month a person.

*Men Students.*—For information concerning dormitories for men, consult the Director of Activities for Men.

#### PLACEMENT OFFICE

The Placement Office, in Columbian House, is maintained to assist graduates in finding positions for which their college work has prepared them.

#### Student Employment

In addition, an employment service is operated to assist the self-supporting student in finding full or part-time employment.

The prospective student who expects to earn any part of his expenses and who does not have a definite appointment to a position before coming to Washington should have the means of support for at least one term.

Many out-of-town students secure positions in the departments of the Government in Washington by taking the United States Civil Service examinations in their home states.



### HEALTH ADMINISTRATION

The payment of the University fee entitles the student to health services hereinafter described. Through reports from the students and University officials, the University attempts to keep informed as to all cases of illness among its students. This service is primarily diagnostic in its intent. It also provides first aid in the event of an emergency.

Medical privileges include: (1) the physical examination of every student entering from secondary school; (2) three visits by the University physician or surgeon, office or residence (District of Columbia) in any one illness, exclusive of a specialist, surgical operation, laboratory, or X-ray examination; (3) hospitalization, including board, medicine, and nursing in the University Hospital for not more than two weeks during a school year—the necessity to be determined by the Director of Health Administration. The duration of hospitalization period (maximum, two weeks) is also to be determined by the Director of Health Administration.

This medical benefit does not apply to illness or disability incurred previous to the University term or prior to payment of the University registration fee.

The student is allowed, if he so desires, to engage physicians and nurses of his own choice, but when he does so he will be responsible for the fees charged.

Rules: (1) The Director of Health Administration is empowered to limit or deny the medical benefits where, in his discretion, a student has, by his misconduct or breach of the rules of the University, made himself ineligible; (2) the Director of Health Administration has authority to determine the necessity and length of hospitalization; (3) a student who has severed his connection with the University is ineligible for medical benefits; (4) a student intending to train for an athletic team is required to pass a thorough examination at the beginning of each term; (5) the above regulations apply also during the summer term of the University.

The University is not responsible for injuries received in inter-collegiate or intra-mural games, or in any of the activities of the departments of physical education.

### THE DEGREES

#### IN THE PROFESSIONAL COURSE

These degrees are Bachelor of Laws (LL.B.) and Juris Doctor (J.D.).

#### REQUIREMENTS FOR THE DEGREE OF BACHELOR OF LAWS

To be recommended for this degree the student must have completed: a residence period of not less than three academic years on a full-



time basis (four years on a part-time basis) in an approved law school, the last year to be in this School; and eighty credit hours with a general average of at least *C*, in courses described on pages 27-31, including the course in Moot Court.

*Combined Degrees of Bachelor of Arts and Bachelor of Laws.*—A candidate for the combined degrees of Bachelor of Arts and Bachelor of Laws must: (1) complete three years of satisfactory college work; (2) fulfill the residence requirement of at least thirty credit hours of Columbian College, the School of Government, or the School of Education; (3) obtain the approval of the Dean of the college concerned at the time of entering the Law School; (4) complete, without a failure in any subject and with an average grade of not less than middle *C*, the work of the first year in the Law School. The degree of Bachelor of Arts will be conferred at the end of the first year in the Law School, provided the above conditions have been satisfied. The degree of Bachelor of Laws will be conferred upon the satisfactory completion of the law course. Law school work taken at another institution will not satisfy the law requirement for the combined degrees.

*Combined Degrees of Bachelor of Science in Engineering and Bachelor of Laws.*—For those students who desire to enter the branches of the legal profession in which a background in engineering is necessary a six-year curriculum is offered, leading to the combined degrees of Bachelor of Science in Engineering and Bachelor of Laws. A candidate for the combined degrees must conform to the residence and scholarship requirements of the School of Engineering throughout the period of preparation for the degree in engineering. His scholarship level for the junior and senior years must be acceptable to both the School of Engineering and the Law School. During the junior and senior years he must complete: (1) the required courses in engineering, (2) the 28 credit hours of courses required in the first year of the Law School, and (3) such electives as he needs to satisfy the 144 credit-hour requirement for the degree in engineering. The first year work in the Law School must be completed without a failure in any subject and with an average grade of not less than middle *C*. Upon the satisfactory completion of the senior year, the degree of Bachelor of Science in Engineering will be conferred. The student will then continue his studies in the Law School; upon the satisfactory completion of which the degree of Bachelor of Laws will be conferred.

#### REQUIREMENTS FOR THE DEGREE OF JURIS DOCTOR

This degree is conferred as a recognition of the completion at the George Washington University Law School, with high rank, of the full professional course of not less than three full years (four years on a part-time basis) including experience in research and legal authorship.

To be recommended for this degree the student must have completed: (1) a residence period of not less than three academic years on a full-time basis (four years on a part-time basis) in the Law School; (2) eighty credit hours with a general average of at least *B*, in courses described on pages 27-31, including the course in Moot Court and either the course in Comparative Law or one of the graduate seminars; and (3) one year of acceptable service on the board of student editors of *The George Washington Law Review*, election to which is subject to regulations laid down by the faculty. Students taking the combined Arts and Law or Engineering and Law course are not eligible for this degree.

#### HONORS

The degree of Bachelor of Laws or of Juris Doctor "with distinction" will be awarded the student who obtains a general average of *A* in the work for the degree.

#### IN THE GRADUATE COURSE

These degrees are Master of Laws (LL.M.), Master of Comparative Law (M.Comp.L.), and Doctor of Juridical Science (S.J.D.).

#### REQUIREMENTS FOR THE DEGREE OF MASTER OF LAWS

To be recommended for this degree the student must have completed a residence period of not less than one academic year. He must have completed with a satisfactory average twenty credit hours of subjects in the graduate curriculum. In individual cases, third- or fourth-year subjects listed in the professional curriculum may be included in the program of study. All requirements for this degree must be completed in a period not exceeding two academic years.

#### REQUIREMENTS FOR THE DEGREE OF MASTER OF COMPARATIVE LAW

To be recommended for this degree the student must have completed a residence period of not less than one academic year. He must have completed satisfactorily twenty-four credit hours of approved subjects in the curriculum of the Department of Law or of such other departments of the University as the faculty of the Law School shall approve.

#### REQUIREMENTS FOR THE DEGREE OF DOCTOR OF JURIDICAL SCIENCE

To be recommended for this degree the student must have completed a residence period of not less than one academic year. He must have pursued a course of study and research designated by his consultative

committee and approved by the Dean's Council of the Law School. At the conclusion of his first year of residence or at such other time as the consultative committee may set, the candidate must pass an oral examination in those fields of study selected by the consultative committee. This examination shall be conducted by the consultative committee and such other members of the faculty as may be assigned by the Dean.

Not later than the date specified in the University calendar the candidate must submit to the Dean one typewritten original and two legible and complete carbon copies of his thesis in its final form and also a typewritten summary of the thesis consisting of not more than 2,500 words. To be acceptable the thesis must, in the opinion of the examining committee, constitute a substantial contribution to the field of law concerned and be suitable for publication. Additional information will be supplied by the Dean.

The summaries of accepted theses will be printed in a volume forming a number of the University BULLETIN. The successful candidate for the doctorate is required, before receiving his degree, to pay a fee to cover the expense of printing the summary of his thesis.



## COURSES OF INSTRUCTION

The courses of instruction listed below are subject to change. The University reserves the right to withdraw any course announced.

The number which precedes the name of a course indicates the term in which that course is offered. An odd number indicates that the course is offered in the fall term; an even number, that it is offered in the winter term; and a double number (e.g., 241-42), that it begins in the fall and continues in the winter term.

First-year courses are numbered from 101 to 200; second-year courses, from 201 to 300; third-year courses, from 301 to 400; and graduate courses, from 401 to 500.

The number of hours of credit given for the satisfactory completion of a course is indicated in parentheses after the name of the course. Thus, a year course giving two hours of credit each term is marked (2-2), and a term course giving two hours of credit is marked (2).

- 101 *Agency* (4)  
Problems of agency in the conduct of business. (Not offered in 1946-47.)  
Summer term 1946.
- 105 *Civil Procedure* (4) Fryer  
Function and composition of pleadings, including their relation to proof. Emphasis is upon reforms, as exemplified by modern code provisions and the Federal Rules of Civil Procedure. Clark, Cases on Pleading and Procedure, 2d ed. Morning and evening sections.
- 111 *Contracts* (4) Spaulding  
Promissory obligation: offer and acceptance, consideration, statute of frauds, formal instruments, rights of third parties, assignments, and joint obligations, conditions, performance, discharge. Williston, Cases on Contracts, 4th ed. Morning and evening sections.
- 123-24 *Criminal Law and Procedure* (2-2) Murdock  
Elements of criminal liability; specific crimes; combinations of persons in crime; criminal procedure. Harno, Cases and Materials. Morning and evening sections.
- 128 *Judicial Process I* (4) Benson  
Benson and Fryer, Readings on the Study of Law and the Anglo-American Legal System. Arnold and James, Cases on Trials, Judgments, and Appeals. Morning and evening sections.
- 133-34 *Property I* (4) Fryer  
Concepts of property, possession and ownership, and of legal relations with respect to chattels and documentary intangibles created by gift, sale, pledge, lien, bailment, etc. Fraser, Cases on Property, Vol. II, 2d ed. Fryer, Readings on Personal Property, 3d ed. Morning and evening sections.



- 137 *Property II* (4) Benson  
Real property; introduction; estates, seisin, landlord and tenant; future interests at common law and under the statutes of uses and wills; merger; elementary study of remoteness and powers; adverse possession; prescription; natural rights. *Fraser, Cases on Property*, Vol. I and II, 2d ed. Morning and evening sections.
- 141 *Torts* (4) Van Vleck  
Civil liability for harms to legally protected interests. *Thurston and Seavey, Cases on Torts*. Morning and evening sections.
- 214 *Constitutional Law I* (4) Collier  
Historical introduction; judicial approach and methods; doctrine of the separation of powers; powers of the National Government; the federal system; relation of the state courts and the federal courts. *Dodd, Cases on Constitutional Law*, 3d ed. Morning and evening sections. Summer term 1940.
- 231 *Equity* (4) Spaulding  
Specific performance of contracts; equitable conversion; statute of frauds; mutuality; conditions; defenses; equitable servitudes; powers of an equity court; effect of decrees; interpleader, bills of peace, cloud on title, rescission and reformation, mistake. *Chafee and Simpson, Cases on Equity*. Morning and evening sections.
- 240 *Property III* (2) Benson  
Conveyances, rents, easements, profits, licenses, covenants running with the land and recording. *Kirkwood, Cases on Conveyances*. Morning and evening sections.
- 242 *Evidence* (4) Fryer  
Functions of court and jury; witnesses; hearsay, opinion, and circumstantial evidence; proof of authenticity; and contents of writings. Morning and evening sections.
- 246 *Negotiable Instruments* (4) Oppenheim  
Bills of exchange, promissory notes and checks, especially under the *Negotiable Instruments Law*. *Britton, Cases on Negotiable Instruments*. Morning and evening sections. Summer term 1946.
- 251 *Quasi Contracts* (2)  
Legal remedies for restitution of benefits obtained or conferred by performance of contract, misrepresentation, mistake, and coercion. *Thurston, Cases on Restitution*. (Not offered in 1946-47.)
- 253 *Wills* (2) Benson  
Formation and revocation of wills; testate and intestate succession. Morning and evening sections.
- 262 *Security Transactions* (4)  
Security interests in real and personal property, their creation, transfer, enforcement, and extinguishment, together with security problems in the fields of suretyship and bankruptcy. (Not offered in 1946-47.)

- 304 *Administrative Law I* (4) Davison  
Legislative setting for administrative bodies; judicial control of administrative action, public utilities, taxation, alien laws. Federal Trade Commission, workmen's compensation, etc. Stason, *Cases on Administrative Law*. Morning and evening sections.
- 311-12 *Business Associations I* (2-2) \_\_\_\_\_  
Forms of business associations; legal requirements as to contributions of capital; powers and rights of corporations, corporate officials, and shareholders. Frey, *Cases on Business Associations*. Morning and evening sections.
- 316 *Conflict of Laws* (4) Van Vleck  
Study of cases involving foreign elements; principles of jurisdiction and limitations upon its exercise; procedure, torts, workmen's compensation, contracts, property, family law, administration of estates, business associations. Cheatham, Dowling, Goodrich, and Griswold, *Cases on Conflict of Laws*, 2d ed. Morning and evening sections.  
Summer term 1946.
- 321-22 *Current Decisions* (2-2) Davison  
Required of, and limited to, members of the student staff of the *Law Review*.
- 326 *Federal Jurisdiction* (2)  
Constitutional origins and powers of federal courts; sources of law applicable to them; business and extent of jurisdiction of federal courts. (Not offered in 1946-47.)
- 327 *Insurance* (2) Stimson  
Summer term 1946.
- 332 *Labor Law* (4) \_\_\_\_\_  
Legality of collective labor action, of ends sought and means used; strike, picketing, boycott, trade agreements; labor injunctions; scope of federal jurisdiction. Evening.
- 334 *Legislation* (2) \_\_\_\_\_  
A study of the problems and principles of legislation. Evening.
- 335-36 *Moot Court* Craighill, Morris, Kirkland, Edgerton  
(2-2)  
Open only to students who have completed fifty credit hours. Prerequisite: Law 105 and 242. Evening.
- 345-46 *Patent Law* (2-2) Sutton  
Substantive patent law; patentability; revision, use, and enforcement of patents; Patent Office practice; Rules of Practice; appeal and interference procedure. Evening.
- 349-50 *Patent Moot Court* (2-2) Coe  
This course may be elected instead of Law 335-36 to satisfy the Moot Court requirement. Both subjects may not be counted toward a degree.

- 351 *Public Utilities* (4) Davison  
Limits of regulation of businesses affected with public interest; ascertainment of value of property used for the public service and the fixing of adequate rates of return. Evening.
- 353 *Domestic Relations* (2) Murphy  
Marriage, annulment, and divorce; rights of husband and wife; rights of parent and child; infants; conflict of laws involving problems of marriage evasion and migratory divorce. Madden and Compton, *Cases on Domestic Relations*.  
Summer term 1946.
- 358 *Sales* (4) Oppenheim  
Transfer of property rights to chattels in various types of sales; documents of title and financing; rights and remedies of buyer and seller as to price, security, warranties, and inspection; third parties; effect of fraud. Williston and McCurdy, *Cases on Sales*, 1932 ed.
- 371 *Taxation* (4) Collier  
Emphasis on the federal estate tax and the federal income tax. Attention given state inheritance and income taxes. Problem of jurisdiction to tax, construction of tax statutes, methods of judicial review of administrative actions in the tax field, modern excise taxes on business concerns. Magill and Maguire, *Cases on Taxation*, 1941 ed. Morning and evening sections.
- 377 *Trade Regulation I* (4) Oppenheim  
Unfair trade practices, combination and monopoly at common law and under various statutes; trade-marks; business torts; Sherman Anti-trust Act; Federal Trade Commission and Clayton Acts; marketing, price and patent practices; Fair Trade Acts; mergers; trade associations; remedies. Oppenheim, *Cases on Trade Regulation*. Morning and evening sections.
- 382 *Trusts* (4) Spaulding  
Nature, creation, elements, administration, termination, modification of trusts; charitable, resulting, construction trusts; liabilities of and to third persons; transfer of beneficiary's interest. Scott, *Cases on Trusts*, 3d ed. Morning and evening sections.
- 404 *Administrative Law II* (4)  
Research seminar course in special problems, including the study of specific administrative agencies, federal or state. (Not offered in 1946-47.)
- 405 *Admiralty* (2) Alden  
Federal and state jurisdiction; jurisdiction over waters, craft, contracts, torts, crimes, in equitable matters, etc.; laws applicable to maritime workers and maritime liens. Sayre, *Cases on the Law of Admiralty*. Evening.
- 411 *Business Associations II* (4)  
Seminar: study of the historical background and functioning of the statutes involved in the work of the Securities and Exchange Commission. (Not offered in 1946-47.)



- 415-16 *Comparative Law* (2-2) Murdock  
 Historical and comparative study of some of the institutions and principles of the civil law (law of South and Central America and most of the Continent of Europe) compared with those of the common law; the influence of the former upon the latter. Morning and evening sections.
- 421 *Constitutional Law II* (4)  
 Research seminar in contemporary problems in constitutional law; special emphasis on interstate-commerce cases and due process of law. (Not offered in 1946-47.)
- 426-27 *Municipal and Government Corporations* McIntyre  
 (2-2)  
 Municipal corporations: organization, powers, functions and legal relations of local governmental units. Federal corporate agencies: organization, powers, functions, and legal relations of functional governmental units separately incorporated. Tooke and McIntire, Cases on Municipal Corporations. Evening.
- 431-32 *International Law* (2-2) Murdock  
 Customary and treaty rights and duties of states; diplomatic and consular agents; treaty interpretation; nationality laws; international courts; claims procedure; war; neutrality. Hudson, Cases on International Law, 2d ed. Evening.
- 434 *Interstate Commerce Commission Law and Procedure* (2) Miller  
 Interstate Commerce Act; the Interstate Commerce Commission; practice and procedure before the Commission. Evening.
- 435-36 *Jurisprudence* (2-2) Collier  
 History of jurisprudence; schools of jurists, particularly the nineteenth century schools; sociological jurisprudence; theories of justice; the nature of law; law and morals; law and the state; the scope and subject matter of law, sources and forms of law; the traditional element; analysis of general legal conceptions. Hall, Readings in Jurisprudence. Morning and evening sections.





# DEGREES CONFERRED

1945-46

## BACHELOR OF LAWS

MAY 30, 1945

Atlas, Martin A.B. 1944, New York University A.M. 1945, Columbia University	N.Y.	Henry, Rhea Preston A.B. 1937, University of South Carolina	Va.
Roman, Howard F. A.B. 1948, University of Illinois	Ill.	Kerley, Martha Louise Kimpel, Ernest B., Jr.	N.C. Ark.
Calvert, Gordon, L. A.B. 1943, The George Washington University	D.C.	A.B. 1941, Arkansas Agricultural and Mechanical College Layne, Aaron Alvin, Jr.	Tenn.
Clark, Marjorie Ida Flint, George Marsh, Jr. A.B. 1940, Harvard University	Ill. Mass.	A.B. 1943, The George Washington University Pincock, Dee Whitford	Idaho Me. D.C.
Gillespie, Mary Abbie B.S. 1929, A.M. 1933, George Peabody College for Teachers	D.C.	Smith, Will Dean Steinberg, Jack N. A.B. 1943, The George Washington University	
Haley, J. Tom, Jr. A.B. 1941, Arkansas Agricultural and Mechanical College	Ark.	Washington, Bushrod Corbin, Jr. A.B. 1943, The George Washington University	Pa.

OCTOBER 17, 1945

Dach, Joseph (With distinction) Dr. Juris 1929, University of Budapest	D.C.	Range, Blanche Vandalia B.S. in Ed. 1933, East Tennessee State Teachers College	Tenn.
Grady, Stafford Robert A.B. 1943, The George Washington University	Mich.	Sapiro, Allan Lemay A.B. 1941, University of California	Calif.
Ogleby, Robert Darvey B.S. 1941, University of Pennsylvania	D.C.	Smith, John Russel Spindler, Pearl Goldstein	Utah N.Y.
Parkard, Howard Merrell B.S. 1942, Northwestern University	Ill.	West, Vincent A.B. 1939, Amherst College	N.Y.
Phillips, Joseph Louis, Jr. A.B. 1943, The George Washington University	Tex.		

FEBRUARY 22, 1946

Browning, Joseph Willmont, Jr. A.B. 1940, University of Alabama	N.J.	Keller, William Davis A.B. 1929, University of Southern California	Calif.
Calhoun, Edward Joseph A.B. 1937, The George Washington University	Md.	Knight, Alfred B. Sloan A.B. 1941, Washburn College	Okla.
Champlain, Ellis E. A.B. 1942, University of Nebraska	Md.	Mack, Manuel Winifred Mills, William Butler	D.C. Maine
Colmetz, Martha Louise A.B. 1942, The George Washington University	N.C.	A.B. 1929, Bowdoin College A.M. 1931, Syracuse University	
Day, Charles Herbert A.B. 1938, Penn College	Ohio	Reifsnnyder, Charles Frank A.B. 1944, The George Washington University	Pa.
Gaynor, Robert Edward A.B. 1940, Rutgers University	N.J.	van Dam, Henry Drs. of Law 1939, University of Amsterdam	N.Y.

MAY 29, 1946

Bacon, John Clifford Ben Ezra, Leon A.B. 1945, The George Washington University	Ohio N.Y.	Davis, Albert Plummer B.S. 1945, Northeastern University Hall, Sheldon Franklin	Va. Va.
Brugger, Vernon Walter B.S. in Ed. 1936, University of South Dakota	S.D.	B.S. 1936, Virginia Polytechnic Institute	

Hall, William Darlington B.S. in E.E. 1934, M.S. in E.E. 1935, E.E. 1940, West Virginia University	W.Va.	Olson, Carlous LeRoy Powers, Irving B.S. in C.E. 1934, Washington University	S.D. Mo.
Harness, Charles Leonard B.S. 1942, The George Washington University	Tex.	Rankin, Joseph Winfield A.B. 1941, The George Washington University	Idaho
Martin, John Gaillard McKinnon, William Thomas A.B. 1925, A.M. 1926, University of South Carolina	D.C. S.C.	Richards, Donald Alford A.B. 1940, Washburn College	Kans.
Memler, Willard Robert A.B. 1941, The George Washington University	Va.	Spero, Abraham A.B. 1944, The George Washington University	N.Y.
Miller, Edith Ilomay B.S. 1935, University of Idaho	Idaho	Sternberg, Edward M.B.A. 1942, University of Chicago	Ill.
Mitchell, Lawrence E. A.B. in Ed. 1938, Nebraska State Teachers College	Nebr.	Tullar, Irving Meredith, Jr. A.B. 1938, Albion College	Ill.
		Wiggins, Ronald Luther B Adm. Eng. 1938, M.S. 1940, Syracuse University	N.Y.

## JURIS DOCTOR

MAY 30, 1945

Hunter, Frank R., Jr. B.S. in Eng. 1939, The George Washington University	Va.	Scott, Robert McCance A.B. 1942, University of Tulsa	Okl.
Mallyck, Eugene Theodor B.S. in E.E. 1941, Drexel Institute of Technology	Pa.		

OCTOBER 17, 1945

Hartung, Elizabeth (With distinction) A.B. 1937, The George Washington University	D.C.	Shreve, Mary Fairfax A.B. 1935, College of William and Mary	Va.
McIntyre, Robert Varnon A.B. 1935, The George Washington University	D.C.	Young, Llewellyn Anker B.S. in E.E. 1938, University of Nevada	D.C.
Rose, John Kerr A.B. 1928, A.M. 1931, Indiana Uni- versity Ph.D. 1935, University of Chicago	Ill.		

FEBRUARY 22, 1946

Pinn, Samuel, Jr. (With distinction) B.M.E. 1941, College of the City of New York	N.Y.	Seibel, Laurence Elias (With distinction) B.S. 1940, College of the City of New York	N.Y.
Reiter, Robert Henry B.S. 1942, Ohio State University	D.C.	Shick, James Robert A.B. 1940, Pacific University	Oreg.

MAY 29, 1946

Cook, Dorothy Sweet A.B. 1931, University of Wisconsin	Wis.	Ewing, Lesley Clark A.B. 1940, Johns Hopkins University	Md.
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## MASTER OF LAWS

MAY 30, 1945

Binish, Stanley Edward B.S. 1929, LL.B. 1936, University of Wisconsin	Wis.	Simpson, Ellsworth Tenley LL.B. 1941, The George Washington University	Va.
Greerhaus, James LL.B. 1940, St. John's University	N.Y.	White, Bernard S. A.B. 1938, University of Nebraska	Nebr.
Sheneman, John R. B.S. 1939, United States Naval Academy LL.B. 1942, Harvard University	Ind.		

OCTOBER 17, 1945

Trent, William Franklin, Jr. Tenn.  
LL.B. 1944. University of Tennessee

FEBRUARY 22, 1946

Goodrich, Ernest Whitmore  
A.B. 1935. College of William and  
Mary  
LL.B. 1938. The George Washington  
University

Va. Johnson, Gillard Bayne, Jr. Ky.  
LL.B. 1944. University of Louisville  
Shuster, Leo N.Y.  
A.B. 1931. LL.B. 1934. Cornell  
University

MAY 29, 1946

de Medeiros, Fernando Saboia  
Diploma 1933, Ecole Libre des  
Sciences Politiques  
LL.B. 1944. The George Washington  
University

Brazil Southerland, Edwin William Ga.  
B.S.C. 1937. LL.B. 1940. University  
of Georgia

Joss, John Hubbard  
A.B. 1936. Yale University  
LL.B. 1934. University of Arizona

Mass. Watson, John William  
A.B. 1934. Tufts College  
LL.B. 1936. Boston University  
Va. Yudkin, Leon N.Y.  
B.S. 1942. LL.B. 1943. St. John's  
University



# STUDENTS REGISTERED

FALL AND WINTER TERMS 1945-46

A			
Abbott, Robert Sutton (LL.B.)	Ohio	Bellis, Tom (LL.B.)	Va.
A.B. 1944, Kent State University		A.B. 1929, Southeast Missouri State Teachers College	
Abney, Arlene Lowell (LL.B.)	Ill.	Benitez, Louis (LL.B.)	N.Y.
B.S. 1939, University of Illinois		A.B. 1944, The George Washington University	
Adams, Catherine Effie (LL.B.)	Vt.	Bennison, Harlan Clark (LL.B.)	Utah
A.B. 1941, Oberlin College		Berg, Martin Donald (LL.B.)	Md.
Adams, Leroy May (LL.M.)	Va.	Berry, Alice Justine (LL.B.)	Calif.
A.B. 1928, Vanderbilt University		A.B. 1943, Smith College	
LL.B. 1928, University of Mississippi		Berzito, Joseph I. (LL.B.)	Pa.
Adams, Warren Thomas (LL.B.)	Va.	B.S. 1938, Pennsylvania State Teachers College, Altoona	
B.S. in C.E. 1931, Georgia School of Technology		Best, Cressett Mitchell (LL.B.)	Ark.
Adas, Curtis L., Jr. (LL.B.)	N.Y.	B.S. 1937, University of Alabama	
B.E.E. 1941, Ohio State University		Beyer, Katherine Bonarth (Und.)	Va.
Alawine, Anton Jackson (LL.B.)	Miss.	B.S. 1944, Radcliffe College	
Alexander, Andrew William (LL.B.)	D.C.	Bidstrup, Dudley J. (LL.B.)	D.C.
Althaus, Robert Franklin (Und.)	N.J.	A.B. 1949, A.M. 1949, University of Missouri	
A.B. 1941, Dartmouth College		Bidwell, Robert Gordon (LL.B.)	N.Y.
LL.B. 1947, Harvard University		B.S. 1938, United States Naval Academy	
Allen, Charles Rusden, Jr. (LL.B.)	D.C.	Bie, Ellen Allan (LL.B.)	Fla.
B.S. 1944, Pennsylvania State College		Billingsley, Joseph Addison, Jr. (LL.B.)	Va.
Andrews, Bert Williams, Jr. (LL.B.)	D.C.	A.B. 1941, Washington and Lee University	
A.B. 1942, The Citadel		Binger, Mary Jane (LL.B.)	W.Va.
Ap, Jr. Harry Emmanuel, Jr. (LL.B.)	Pa.	A.B. 1941, Florida State College for Women	
A.B. 1938, Lafayette College		Birdsall, Sally May (LL.B.)	Iowa
Appleby, James Scott (LL.B.)	D.C.	A.B. 1946, University of Iowa	
A.B. 1944, University of Arizona		Birdsell, John F. (Und.)	D.C.
Asbby, Robert Samuel (Und.)	Ind.	A.B. 1945, The George Washington University	
LL.B. 1941, Harvard University		Bishop, Bruce Clay (LL.B.)	Tenn.
Aslan, Rudolph Alexander (LL.B.)	Miss.	B.B.A. 1940, University of Chattanooga	
A.B. 1940, The George Washington University		Brown, Henry Joseph, Jr. (LL.B.)	Ohio
B		B.S. 1944, Miami University	
Bacon, John Clifford (LL.B.)	Ohio	A.M. 1942, Ohio State University	
Balcom, Raymond Douglas (LL.B.)	Mass.	Black, Harvey (LL.B.)	Calif.
A.B. 1940, Clark University (Mass.)		Blackmon, E. B. (LL.B.)	Ark.
M.B.A. 1942, University of Michigan		B.S. 1946, John Brown University	
Balfour, Don Arthur (LL.B.)	D.C.	Blondheim, Dorothy Hudson (LL.B.)	N.C.
A.B. 1945, The George Washington University		A.B. 1934, Miami University	
Ball, Harold Orr (Und.)	D.C.	Bockenek, David M. (Spec.)	N.J.
B.S. 1926, University of Arizona		B.S. in E.E. 1949, Ohio Northern University	
Barnes, Carl A. (LL.B.)	Wis.	LL.B. 1928, University of Newark	
Ph.B. 1944, University of Wisconsin		LL.M. 1941, New York University	
Barr, John Lester, Jr. (LL.B.)	Md.	Boire, Harold Arthur (LL.M.)	Fla.
A.B. 1939, Harvard University		LL.B. 1940, John B. Stetson University	
Barriekman, Ray Ellsworth (LL.M.)	Ark.	Bolen, Arnold Lee (LL.B.)	Md.
A.B. 1934, West Virginia University		A.B. 1937, High Point College	
LL.B. 1948, University of Arkansas		Bollard, Isabelle Mary (LL.B.)	D.C.
Baskin, Ruth Esther (LL.B.)	Fla.	B.S. 1943, University of Tennessee	
A.B. 1945, University of Pennsylvania		Bowman, Charlotte Josephine (LL.M.)	Va.
Bassener, Oliver Herbert (LL.M.)	Wis.	A.B. 1946, LL.B. 1942, The George Washington University	
LL.B. 1936, Marquette University		Boyd, Charles Thomas (LL.B.)	Fla.
Baumgardner, Russell Howard (LL.B.)	D.C.	Bradley, John Curtis (LL.B.)	Va.
B.S. 1941, St. Paul College of Law			
Beckerly, William Henry (LL.B.)	Mich.		
Beauf, David Theodore (LL.B.)	Md.		
Bee, Max Culbertson (LL.B.)	Nebr.		
A.B. 1941, Park College			

Brennan, John Wright (LL.B.) A.B. 1943, Catholic University of America	D.C.	Cherry, Ruth Virginia (LL.B.) A.B. 1934, Indiana Central College	D.C.
Brock, John Roy (LL.B.) A.B. 1941, The George Washington University	Okla.	Christaw, John Lawrence (LL.B.) A.B. 1941, University of Wisconsin	Wis.
Bronaugh, Alfred Taylor, Jr. (LL.B.) B.S. in E.E. 1939, The George Washington University	D.C.	Church, Frederick Lewis, Jr. (LL.B.) B.S. in B.A. 1943, American University	Va.
Brown, Mary Pillsbury (LL.B.) A.B. 1945, Smith College	N.H.	Clark, Frances Evans (LL.B.) A.B. and T.D. 1942, The George Washington University	D.C.
Browning, Joseph Willmont, Jr. (LL.B.) A.B. 1941, University of Alabama	N.J.	Clay, Edna Lyllom (LL.B.) A.B. 1921, Tulane University	Ala.
Brugger, Vernon Walter (LL.B.) B.S. in Ed. 1936, University of South Dakota	S.D.	Clements, Samuel Eugene (LL.B.) B.S. 1935, M.S. in Eng. 1938, Yale University	Conn.
Brundson, Dalton Verlane (LL.B.) B.S. in Chem. Eng. 1938, Purdue University	D.C.	Clepper, Jane Faust (LL.B.) B.S. in Com. 1941, University of Georgia	Tenn.
Buchman, Abraham Martin (Uncl.) A.B. 1935, New York University	N.Y.	Coburn, William Hoffman (LL.B.) Cuda, Joseph Thomas (LL.B.)	Mont. Pa.
LL.B. 1938, J.S.D. 1939, St. Lawrence University		A.B. 1942, University of Scranton	
Bugay, Paul E. (LL.B.) A.B. 1942, The George Washington University	Pa.	Colley, Charles Shelby, Jr. (LL.B.) A.B. 1941, The George Washington University	Tenn.
Burch, Charles Augustus (LL.B.) B.S. 1937, United States Naval Academy	Md.	Cohen, Ernest Samuel (LL.B.) B.C.E. 1937, College of the City of New York	D.C.
Burke, John Edward (LL.B.) B.S. 1934, Indiana University	Ill.	Cohn, Joseph Robert (LL.B.) Cole, Wesley Stevenson (LL.B.)	Conn. Md.
		M.F. 1932, Stevens Institute of Technology	
C		Collier, Chester Winthrop (LL.B.) B.S. 1939, Trinity College	Conn.
Cahill, William Todd (LL.B.) Cairns, Edna Marie (LL.B.)	N.Y. N.J.	Colmetz, Martha Louise (LL.B.) A.B. 1942, The George Washington University	D.C.
B.S. 1940, New Jersey State Teachers College		Coaway, Margaret Mary (LL.B.) A.B. 1944, Marywood College	Pa.
Caldwell, Randolph Foster, Jr. (LL.B.) Calhoun, Edward Joseph (LL.B.)	Tenn. D.C.	Cook, Dorothy Sweet (LL.B.) A.B. 1941, University of Wisconsin	Va.
A.B. 1947, The George Washington University		Cook, Walter McQueen (LL.B.) Cooper, Wesley William (LL.B.)	Ala. Tex.
Calomeris, William Basil (LL.B.) Camp, Robert Clifford (LL.B.)	D.C. Va.	Cotto, Pedro Francisco, Jr. (LL.B.) A.B. 1945, The George Washington University	Panama
B.S. in E.E. 1939, Purdue University		Cox, Lewis Calvin, Jr. (LL.B.) Cox, Martin Edward (LL.B.)	N.M. N.J.
Campbell, Wason Gardner (LL.B.) B.S. in B.A. 1941, University of Tennessee	Tenn.	Cross, Margaret Johns (LL.B.) A.B. 1938, University of Illinois	Md.
Carrabino, Joseph Dominic (LL.B.) B.S. in Mech. Eng. 1944, Worcester Polytechnic Institute	Mass.	Croxton, Hardy Winthrop (LL.B.) A.B. 1943, University of Richmond	D.C.
Carten, Leo A. (LL.M.) B.S. 1934, Massachusetts Institute of Technology	Va.	Cuillier, Doris Hazel (LL.B.) A.B. 1929, State College of Washington	Wash.
LL.B. 1932, The George Washington University		Curry, Robert Bartlett (Uncl.) A.B. 1946, Ohio State University	Ohio
Cattani, Marie Luise (Uncl.) LL.B. 1944, Fordham University	N.Y.	Curtis, Floyd John (LL.B.)	Calif.
Cefaratti, Donald N., Jr. (LL.B.) A.B. 1940, University of Pittsburgh	Pa.	D	
Cennamo, Anthony Dominic (LL.B.) Cerr, Nicola, Jr. (LL.B.)	Ohio Ohio	Dach, Joseph (Uncl.) LL.D. 1928, University of Budapest	D.C.
A.B. 1937, Western Reserve University		Dalton, Virginia Lee (LL.B.) B.S. 1941, Wilson College	D.C.
Chambers, Richmond Duxall (LL.B.) Champlin, Ellis Earl (LL.B.)	D.C. Md.	Davidson, James Campbell (LL.B.) A.B. 1945, William Jewell College	Mo.
A.B. 1942, University of Nebraska		Davis, Albert Plummer (LL.B.) B.S. 1935, Northeastern University	Va.
Chappell, Louis Calvin (LL.B.) A.B. 1937, Western Michigan College of Education	Mich.	Davis, Fred Wilson (LL.B.) A.B. 1938, Marshall College	W. Va.
A.M. 1938, University of Michigan		Davis, Frederic Terrence (LL.B.) Day, Charles Herbert (LL.B.)	Ga. Ohio
Charrier, James William (LL.B.) A.B. 1945, The George Washington University	Idaho	A.B. 1938, Fenn College	

Delong, Allen Rhodes (LL.B.) A.B. 1941, Washington and Lee University	D.C.	Elyove, Faiga Rose (LL.B.) A.B. 1942, The George Washington University	D.C.
Delone, Harry Leonard (LL.B.) A.B. 1936, West Virginia University	W.Va.	Ewing, Lesley Clark (J.D.) A.B. 1940, Johns Hopkins University	Md.
de Medeiros, Fernando Sabola (LL.M.) LL.B. 1944, The George Washington University	Brazil	F	
Dennard, J. Frank Norris (LL.M.) LL.B. 1942, University of Texas	Tex.	Faith, Ethelyn Juanita (LL.B.) B.S. 1949, Tennessee College for Women	D.C.
Dere, Charles Ivan (LL.B.) A.B. 1940, Illinois Wesleyan University	Ill.	Falconer, Donald Pearson (LL.B.) A.B. 1943, University of California	Calif.
Derrick, Duane Greenwood (LL.B.) Deutsch, Morris Robert (LL.B.)	Utah	Fary, Thomas Franklin (LL.B.) Feldmann, Patricia Holmes (LL.B.)	Va. D.C.
Dickerson, Rollin Pete (LL.B.) Dik, Elsa Lilly (LL.B.)	N.Y. Md.	Feldman, Melville William (LL.B.) A.B. 1940, The George Washington University	D.C.
Dillon, Edward Scott (LL.B.) B.S. 1942, University of Illinois	D.C.	Fellows, Vera Ellen (LL.B.) A.B. 1927, Colby College	Md.
Dwyer, William Robinson (LL.B.) A.B. 1937, Pomona College	Va.	Ferry, John Paul (LL.B.) A.B. 1937, B.S. 1938, St. Joseph's College	Pa.
Dyck, Henry Joseph, Jr. (LL.B.) B.S. in Econ. 1928, University of Pennsylvania	Va.	Fields, Orden Wilson (LL.B.) A.B. 1933, University of California	Calif.
Donovan, Mary Elizabeth (LL.B.) B.S. 1942, University of Pittsburgh	Pa.	Finch, Edward Ralley (LL.B.) A.B. 1941, Princeton University	D.C.
Dorsett, Harold Lee (LL.M.) LL.B. 1942, The George Washington University	Wyo.	Finders, Lee McLeish (LL.B.) A.B. 1941, University of Iowa	Iowa
Dorsey, Benjamin Henry (LL.B.) B.S. 1945, University of Pennsylvania	D.C.	Fiedley, Paul Augustus (LL.B.) A.B. 1943, Illinois College	Ill.
Dorsey, William Henry, Jr. (LL.B.) A.B. 1941, University of Dayton	D.C.	Fischer, Edwin Ross (LL.B.) A.B. 1937, A.M. 1939, Columbia University	N.Y.
Doty, Dale Edward (LL.B.) A.B. 1936, Pomona College	Calif.	Fisher, Ethel Mae (LL.B.) Fisher, Sydney Gilbert (LL.B.)	Mass. Va.
A.M. 1938, University of Cincinnati		B.S. 1949, United States Military Academy	
Dougherty, Francis Robert (LL.B.) Doyno, Rose Veronica (LL.B.)	Md. N.J.	Fitzhugh, David William (LL.B.) B.S.C.E. 1932, University of Michigan	D.C.
A.B. 1941, University of Maryland		Frazer, Murray Bennett, Jr. (LL.B.) B.S. 1939, United States Naval Academy	Pa.
Dubowsky, Sylvia Ruth (LL.B.) A.B. 1938, University of Cincinnati	Ohio	Freed, Aleck (LL.B.) Freeland, Ralph Lynn, Jr. (LL.B.)	D.C. Calif.
Dudley, Samuel Charles (LL.B.) B.S. 1936, Washington College	D.C.	A.B. 1939, M.E. 1941, Stanford University	
B.Fine. 1936, Johns Hopkins University		French, Elzan Llewellyn (LL.B.) B.S. in B.A. 1941, M.S. in B.A. 1944, University of Washington	Va.
Dulaney, Benjamin Weems (LL.B.) A.B. 1943, University of Virginia	D.C.	French, Ward Monroe (S.I.D.) LL.B. 1946, Temple University	Pa.
Duque, Jose Gabriel (LL.B.) B.S. 1944, American University	Panama	Fuerst, Jimmy Stern (LL.B.) A.B. 1937, College of the City of New York	D.C.
Dusall, Andrew Bradley, Jr. (LL.B.) A.B. 1939, Princeton University	Md.	A.M. 1941, University of Chicago Futonan, Josef (LL.B.)	N.Y.
E		B.S. 1935, M.S. 1936, College of the City of New York	
Earp, Thomas Spencer (LL.B.) A.B. 1939, Elon College	Va.	G	
Edgerton, John D. (LL.B.) Edwards, James Edwin (LL.B.)	D.C. Fla.	Gable, Raymond Edgar (LL.M.) LL.B. 1941, A.B. 1943, The George Washington University	Pa.
A.B. 1935, The George Washington University		Garcia, Thomas Gerson (LL.B.) A.B. 1941, University of Redlands	D.C.
Edwards, John Elliott (LL.B.) A.B. 1934, Fordham University	Mich.	Garfield, Flavin Burris (LL.B.) Garrett, Marie Gertrude (LL.B.)	Utah D.C.
Ehlers, Joseph Henry (LL.B.) B.S. 1914, M.S. 1916, Trinity College	Calif.	B.S. 1936, New York University	
Eisenberg, William Victor (LL.B.) A.B. 1934, Brooklyn College	D.C.		
A.M. 1942, The George Washington University			
Ellis, John Flather (LL.B.)	D.C.		



Garrity, Patricia C. (LL.B.) A.B. 1940, College of New Rochelle	D.C.	Hall, Sheldon Franklin (LL.B.) B.S. 1910, Virginia Polytechnic Institute	Va.
Gass, Edmund Cody (LL.B.) A.B. 1927, Carson-Newman College	Tenn.	Hall, William Darlington (LL.B.) B.S. in E.E. 1934, M.S. in E.E. 1935, E.E. 1940, West Virginia University	D.C.
A.M. 1931, University of Tennessee	Pa.	Hallam, Henry Charles, Jr. (LL.B.) Hendin, Edmund Tate (LL.B.)	Md. Wis.
Gaughan, John Vincent (LL.B.) A.B. 1932, Villanova College	N.J.	Ph.B. 1929, University of Wisconsin	
Gaynor, Robert Edward (LL.B.) A.B. 1940, Rutgers University	Va.	Handy, Mamie Barbara (LL.B.) B.S. 1944, Trinity College	Vt.
Gearheart, Ernest Theodore, Jr. (LL.B.) A.B. 1916, University of Richmond	Va.	Hansen, Harold Woodrow (LL.B.) Harmon, Francis Lyman (LL.B.)	Va. Mich.
Geiger, John H. (LL.B.) A.B. 1920, The George Washington University	Calif.	B.S. in E.E. 1930, Michigan State College of Agriculture and Applied Science	
Geller, Galen Stearns (LL.B.) A.B. 1916, Occidental College	Md.	Harmon, Robert Brooks (LL.B.) B.S. 1911, University of Maryland	Md.
A.M. 1940, University of California	Ohio	Harness, Charles Leonard (LL.B.) B.S. 1942, The George Washington University	Tex.
Gilfix, Roy Hart (LL.B.) B.S. 1944, University of Maryland	Okla.	Harness, Nell W. (LL.B.) A.B. 1937, Texas Christian University	Tex.
Giuliani, Virginia Lee (LL.B.) A.B. 1945, Ohio University	Tex.	Harrington, Joseph M. (LL.B.) A.B. 1944, University of Iowa	Iowa
Glass, Nouwin P. (LL.M.) A.B. 1917, Oklahoma City University	Iowa	Harris, Laina Kay (LL.B.) A.B. 1941, University of Cincinnati	Ohio
LL.B. 1941, University of Oklahoma	Iowa	B.S. 1942, Columbia University	
Glass, Thomas Samuel (LL.B.) A.B. 1942, Tulane University	D.C.	Harry, Charles Howard, Jr. (Uncl.) B.S. 1932, University of Pennsylvania	Pa. Ohio
Glenn, Lewis Elwood (LL.B.) Godhansen, Raymond Paul (LL.B.)	D.C.	Hart, Helen (LL.M.) A.B. 1944, Miami University	
Godfrey, Francis Edwin (LL.B.) Good, Dennis, Jr. (LL.B.)	Ind.	LL.B. 1945, Western Reserve University	
Good, Charles Lloyd (J.D.) B.S. in Chem. Eng. 1942, Purdue University	Ark.	Hart, William Surrey, Jr. (LL.B.) A.B. 1942, University of California at Los Angeles	Calif.
Goodman, Elizabeth Josephine (LL.B.) A.B. 1918, Henderson State Teachers' College	Va.	Hart, Wilson Ritter (LL.B.) A.B. 1942, University of New Mexico	N.M.
Goodrich, Ernest Whitmore (LL.M.) A.B. 1935, College of William and Mary	D.C.	Hartman, Doris Katherine (LL.B.) A.B. 1940, Deke University	N.J. D.C.
LL.B. 1938, The George Washington University	D.C.	Hartman, Elizabeth (LL.B.) A.B. 1937, The George Washington University	
Goodwin, Norton (LL.B.) A.B. 1918, Harvard University	Mich.	Hasell, George Washington (LL.B.) A.B. 1919, University of Alabama	Ga.
Gould, Herbert Stewart (Uncl.) A.B. 1900, Stanford University	Md.	Hedel, William Gordon (LL.B.) B.S. 1932, Dickinson College	Pa.
Grady, Stafford Robert (LL.B.) A.B. 1941, The George Washington University	Va.	Henry, Patrick W. (LL.B.) Hester, James Gordon (LL.B.)	Mo. Tex.
Grautoff, Walter Bernard (LL.B.) Gray, Robert McDonald (LL.M.)	Idaho	A.B. 1935, Southwest Texas State Teachers' College	
A.B. 1920, LL.B. 1932, University of North Carolina	Minn.	Hibben, Robert Radford (LL.B.) A.B. 1943, Dartmouth College	D.C.
Greenfield, George Albert (LL.B.) A.B. 1938, College of Idaho	Va.	Hill, George Edmund II (LL.B.) A.B. 1942, Wesleyan University	Conn.
Greenwood, Irene Louise (LL.B.) B.S. 1941, University of Minnesota	N.Y.	Hill, William Bethel, Jr. (LL.B.) B.S. in Chem. 1941, University of Virginia	Va.
Gregory, Jesse Manning (LL.B.) Griff, Edith R. T. (LL.B.)	N.Y.	Hillhouse, Andrew Finch, Jr. (LL.B.) B.S. 1947, Massachusetts Institute of Technology	N.Y.
A.B. 1941, Brooklyn College		Hillis, John Thomas (LL.B.) B.S. 1934, United States Military Academy	Ind.
Grill, Murray Myron (LL.B.) A.B. 1940, College of the City of New York	Va.	LL.B. 1930, Indiana University	
Grosvenor, John Homer, Jr. (Uncl.) A.B. 1933, Hastings College	Va.	Hinsdale, Charles Edwin (LL.B.) A.B. 1940, University of North Carolina	N.C.
LL.B. 1917, University of Nebraska	Ill.	Hirsch, Chester L. (LL.B.) A.B. 1941, Rutgers University	N.J.
Grundstein, Nathan David (LL.B.) Ph.D. 1943, Syracuse University		A.M. 1942, Columbia University	
Gullett, John Hungerford (LL.B.)			

## H

Hainer, Herbert Milton, Jr. (LL.M.)  
LL.B. 1941, Northeastern University



Hirschman, Max Abraham (LL.B.) B.S.S. 1938, M.S. in Ed. 1940. College of the City of New York	D.C.	Karsted, Jessie Walton (LL.B.) Karl W. Chifford (LL.B.) Kaufman, Lillian (LL.B.) Kaufman, Lynne Anderson (LL.B.) A.B. 1940, Wesleyan University	D.C. D.C. Va. D.C.
Hoffmann, Olga Hodel (LL.B.) Holdstock, Henry Bruce (LL.B.) A.B. 1939, The George Washington University	N.Y. Calif.	Keescker, Ward Weber (LL.B.) A.B. 1923, A.M. 1924, The George Washington University	W.Va.
Holmes, Marguerite Lynette (LL.B.) A.B. 1945, University of Wisconsin	Wis.	Ph.D. 1929, American University	
Hopkins, Mary Magruder (LL.B.) A.B. in Ed. 1936, University of South Carolina	S.C.	Kelleher, Gertrude M. (Uncl.) LL.B. 1940, Northeastern University	Mass.
Howard, William J. (Uncl.) Hubbart, Dwight Lowell (LL.B.) A.B. 1937, The George Washington University	Ky. D.C.	Kemen, Solon Bambridge (LL.B.) B.E.E. 1943, Cornell University	D.C.
Hunt, Louise Hart (LL.B.) Hutchinson, Howard Kenneth (Uncl.) LL.B. 1934, Miami University LL.B. 1938, University of Cincinnati	D.C. Ohio	Kennedy, Asa Dutton, Jr. (LL.M.) A.B. 1931, University of Oklahoma LL.B. 1939, University of Michigan	Okla.
Hynes, James Aubrey (LL.B.) A.B. 1940, University of Michigan	D.C.	Kerr, David Jay (LL.B.) Kessinger, James Bennett (LL.B.) Kibby, Katherine Helen (LL.B.) A.B. 1927, Trinity College	Okla. La. D.C.
I		King, Fred Wesley (LL.B.) Kinney, David B. Ash (LL.B.) A.B. 1941, Alma College	Calif. Va.
Irish, Robert Godwin (LL.B.) B.S. in A.E. 1940, Cornell University	N.Y.	Kipp, Mary Elizabeth (LL.B.) A.B. 1941, Hamline University	Minn.
Isom, Clifford Clinton (LL.B.) B.S. 1930, Kansas State College	Va.	Kirchheimer, Otto (LL.M.) J.D. 1928, University of Bonn	D.C.
J		Kirtz, Frank Gideon (LL.B.) A.B. 1943, M.S. 1944, Washington University	Maine
Jacobi, Wilma Jane (LL.B.) A.B. 1941, Duke University	D.C.	Kline, William Howard John (LL.B.) B.S. in Ch.E. 1948, Pennsylvania State College	Va.
Jameson, Marie Eleanor (LL.B.) A.B. 1939, Wellesley College	D.C.	Knapp, Joseph Martin (LL.B.) Kneipp, Robert Frederick (LL.B.) A.B. 1945, Duke University	Pa. D.C.
Jaspen, Helen S. (LL.B.) B.S. 1943, University of Michigan	N.Y.	Knight, Alfred Bishop (LL.B.) A.B. 1941, Washburn College	Okla.
Jenkins, Elwyn Vernon (LL.B.) A.B. 1939, Kenyon College	Ohio	Koblentz, Charles (LL.B.) A.B. 1939, Central YMCA College, Chicago	Ill.
Johnson, Charlotte Alice (LL.B.) B.B.A. 1932, University of Minnesota	Minn.	Kohler, Francis Leroy (LL.B.) Koki, Philip Soter (LL.B.) B.S. 1945, Worcester Polytechnic Institute	Pa. D.C.
Johnson, Donald Arthur (LL.B.) M.D. 1945, The George Washington University	D.C.	Krause, James Arthur (LL.B.) B.B.A. 1941, University of Texas	Tex.
Johnson, Gillard Bayne, Jr. (LL.M.) LL.B. 1944, University of Louisville	Ky.	Kuske, Esther Juanita (LL.B.) B.S. 1922, Northwestern University	Minn.
Johnson, Norton Steele (LL.B.) Jones, Benjamin Franklin, Jr. (LL.B.) A.B. 1927, Vanderbilt University	D.C. Tenn.	L	
Jones, Earl R. (Uncl.) Jones, James Frederick (LL.B.) Jones, Olin Welborn, Jr. (LL.B.) A.B. 1940, University of Oklahoma	D.C. Va. Okla.	Labissoniere, George Robert (LL.B.) Lamb, Vincent Shaw (LL.M.) LL.B. 1937, Harvard University	Wash. Va.
Jones, Paul Maurice (Uncl.) A.B. 1938, LL.B. 1940, New York University	N.J.	Larkin, Frank Yoakum (LL.B.) A.B. 1937, Princeton University	N.Y.
Joss, John Hubbard (LL.M.) A.B. 1926, Yale University LL.B. 1931, University of Arizona	Ind.	Latimer, John Austin, Jr. (LL.B.) B.S. 1939, Davidson College	D.C.
K		Leach, William O., Jr. (LL.B.) Lee, Donald E. (LL.M.) A.B., LL.B. 1945, The George Washington University	Okla. Va.
Kahn, Leon (LL.B.) Kalikow, Irving (LL.B.) B.B.A. 1948, College of the City of New York	Va. N.Y.	Lee, Harvey Atwood (LL.B.) A.B. in Govt. 1943, The George Washington University	Miss.
Kallman, Beatrice (LL.B.) Kane, Roslyn Dancy (LL.B.) A.B. 1939, University of North Carolina	D.C. D.C.	Lee, Sydney Smith (LL.B.) B.S. in E.E. 1940, Georgia School of Technology	D.C.
Karpishech, Eva Antonia (LL.B.) A.B. 1946, The George Washington University	Ohio	Lee, Virginia Welch (LL.B.) A.B. 1939, The George Washington University	W.Va.
		Lehman, Robert Frank (LL.B.) B.S. 1943, Lawrence College	Wis.

Leimbach, Leonard LaSalle (LL.B.) A.B. 1945, Brown University	Mass.	Matvey, John Thomasson (LL.B.) B.S. in Eng. 1934, Duquesne University	D.C.
Leonard, Robert Sterling (LL.B.) A.B. 1930, The George Washington University	Md.	McAnear, Frank Ed (LL.B.) A.B. 1945, The George Washington University	Ark.
A.M. 1931, Harvard University		McCarthy, Matthew Edward (LL.M.) A.B. 1933, Fordham University	N.Y.
Lewis, James William (LL.B.) A.B. 1933, Maryville College	D.C.	LL.B. 1937, St. John's University	
Lewis, Sydney (LL.B.) A.B. 1940, Washington and Lee University	D.C.	McClenahan, Donald Johnston (LL.B.) A.B. 1938, College of Idaho	Idaho
Lipsitz, Herbert (LL.M.) LL.B. 1940, Boston University	Mass.	McEwan, James Gray (LL.B.) McIntyre, Robert Varian (LL.B.)	N.Y. D.C.
Lloyd, Raymond James (LL.B.) A.B. 1941, University of Virginia	D.C.	A.B. 1935, The George Washington University	
Lockhart, Elizabeth Berkeley (LL.B.) A.B. 1927, College of William and Mary	Va.	McIntyre, William G. (LL.E.) McKay, Emerald Ralston (LL.B.)	Mont. Mo.
Lockwood, Harris Cade (Uncl.) B.S. 1932, United States Naval Academy	Md.	B.S. 1935, Northwest Missouri State Teachers College	
Loeb, Jack William (Uncl.) A.B. 1935, J.D. 1937, University of Chicago	Ill.	McKey, Richard Kendall (LL.B.) McKinnon, William Thomas (LL.B.)	D.C. D.C.
London, Harry Jack (LL.M.) LL.B. 1934, Ohio State University	Ohio	A.B. 1925, A.M. 1926, University of South Carolina	
Long, Charles Hays, Jr. (Uncl.) A.B. 1928, LL.B. 1931, University of Pennsylvania	Pa.	McLendon, Frank Wilson (LL.B.) McMillan, George M. (LL.B.)	Mass. Utah
Loveless, Ernest Alvin (LL.B.) A.B. 1943, University of Maryland	Md.	McRae, Robert Bruce (LL.B.) A.B. 1940, American University	Md.
Lowe, Jerome August (LL.B.) B.S. 1934, Cornell University	Va.	McReynolds, James Sloan (LL.B.) A.B. 1944, The George Washington University	Ill.
Lukens, John Forstle (LL.B.) A.B. 1936, University of Idaho	Idaho	Meekison, Virginia V. (LL.B.) A.B. 1941, Radcliffe College	Ohio
M		A.M. 1935, Ohio State University	
Mack, John Raymond (LL.B.) A.B. 1934, Iowa State Teachers College	D.C.	Mehler, Richard Arnd (LL.B.) A.B. 1941, Washington and Lee University	Pa.
Mack, Muriel Winifred (LL.B.) Mackey, James Eugene, Jr. (LL.B.)	D.C.	Menier, Willard Robert (LL.B.) A.B. 1941, The George Washington University	Va.
MacMaster, Andrew James (LL.B.) B.B.A. 1943, Southern Methodist University	Tenn. Va.	Menke, Bernard William (LL.B.) A.B. 1940, University of Nebraska	Nebr.
Magurn, Joseph John (LL.B.) A.B. 1938, Harvard University	D.C.	Merrell, John Yates (LL.B.) A.B. 1942, Brigham Young University	Va.
Mallyck, E. Theodore (LL.M.) B.S. in E.E. 1941, Drexel Institute of Technology	Pa.	Mickelsen, Walter (LL.B.) B.B.A. 1933, University of Washington	Wash.
J.D. 1945, The George Washington University		A.M. 1942, The George Washington University	
Malthy, Wilson Ray (LL.B.) A.B. 1940, A.M. 1933, University of Wisconsin	Va.	Millar, Ronald Kenneth (LL.B.) A.B. 1931, San Diego State College	Calif.
Maltman, William Leneave (LL.B.) B.S. 1943, University of Oregon	Oreg.	Miller, Edith Ilomay (LL.B.) B.S. 1935, University of Idaho	Idaho
Maraspin, Davis Goodwin (Uncl.) B.S. 1921, Lehigh University	Mass.	Miller, Florian George (LL.B.) B.S. in M.E. 1920, University of Michigan	Pa.
Marsden, Lawrence Albert (LL.B.) B.S.L. 1941, University of Minnesota	Minn.	LL.B. 1932, The George Washington University	
Marshall, Harry Taylor, Jr. (LL.B.) A.B. 1940, University of Virginia	Va.	Miller, Roger H. (LL.B.) Millman, Max R. (LL.B.)	Ind. N.Y.
Martin, Franklin (LL.B.) A.B. 1942, The Citadel	D.C.	B.S. 1937, College of the City of New York	
Martin, John Gaudin (LL.B.) Misterson, James Aaron (LL.B.)	D.C. Ky.	Mills, Mary Louise (LL.B.) A.B. 1915, Bryn Mawr College	N.Y.
B.S. 1918, United States Naval Academy		Minno, John (LL.B.) A.B. 1938, University of Pittsburgh	Va.
Matthews, Denbigh Schuyler (LL.B.) B.S. 1943, The George Washington University	Va.	Minthorn, Samuel Peter (Uncl.) Mitchell, Lawrence E. (LL.B.)	Oreg. Nebr.
Mattimore, Walter Bernard (LL.B.)	N.Y.	A.B. in Ed. 1918, Nebraska State Teachers College	
		Moloney, Elaine Joan (LL.B.) A.B. 1942, Trinity College	Mass.
		Montgomery, Leonora Ryan (LL.B.) A.B. 1944, Wellesley College	Ten.

Montgomery, William Jefferson (LL.B.) B.S. 1941, Agricultural and Mechanical College of Texas	Tex.	Norman, Ellington Murray (LL.B.) A.B. 1944, University of Georgia	Ga.
Moon, Joan Marie (LL.B.) A.B. 1942, University of Maryland	Md.	Nunan, Craig Spencer (LL.B.) B.S. 1940, University of California	Calif.
Morey, Robert Havens (LL.B.) Ph.D. 1931, Brown University	N.Y.	Nunley, William Torrance (LL.B.) A.B. 1940, Marshall College	D.C.
Morse, Howard Albert, Jr. (LL.M.) A.B. 1942, LL.B. 1942, University of Wisconsin	Va.	Nylen, Edward Warren (LL.B.) B.S. 1942, University of Maryland	Md.
Moscattello, Anthony Carmen (LL.B.) Mass. Belinda Arthur (LL.B.) A.B. 1941, University of Kentucky	Pa. Ky.	O	
Moss, Stanley Samuel (LL.B.) B.S.S. 1938, College of the City of New York	Md.	O'Byrne, John Coates, Jr. (LL.B.) B.S. 1941, M.S. 1943, Syracuse University	N.Y.
Muller, Victor Jasper (LL.B.) B.S. 1941, University of Southern California	Va.	O'Donnell, Alice Louise (LL.B.) A.B. 1939, Harvard University	Wash. Md.
Murphy, Anna Lu (LL.B.) A.B. 1944, The George Washington University	Ill.	Oglesby, Robert Dansey (LL.B.) B.S. 1941, University of Pennsylvania	D.C.
Murphy, Dorothy Catherine (LL.B.) A.B. 1944, University of Wisconsin	Wis.	O'Hara, Donald C. (Uncl.) LL.B. 1941, The George Washington University	Va.
Murphy, Jay Wesley (S.J.D.) A.B. 1944, University of Illinois J.D. 1941, LL.M. 1944, The George Washington University	Ill.	Oherin, Edward Francis (LL.B.) A.B. 1942, University of Missouri	Md.
Murphy, Joan Catherine (LL.B.) A.B. 1924, The George Washington University	D.C.	Olsen, Elwood Harlan (LL.M.) A.B. 1938, Marietta College J.D. 1941, University of Iowa	S.D.
Murtha, Mary Margaret (LL.B.) A.B. 1938, University of South Dakota	S.D.	Olson, Carlus Leroy (LL.B.) Olson, Charles Paul (LL.B.) B.S. 1939, Utah State Agricultural College	D.C. Utah
Myers, Edward S. (Uncl.) LL.B. 1944, Georgetown University	D.C.	Onion, Oliver Lloyd (LL.B.) A.B. 1929, Lake Forest College	Ga.
Myers, Robert Holt (LL.B.) A.B. 1940, Princeton University	Md.	Onken, George Marcellus (LL.B.) A.B. 1936, Princeton University	N.Y.
N		Ottoloff, Mary Ann McCann (LL.B.) A.B. 1942, The George Washington University	Md.
Nassif, Helen (LL.B.) Nerus, Mildred E. (LL.B.) B.S. 1927, Rhode Island State College	Iowa Md.	O'Rourke, Thomas Francis (LL.B.) Osann, Edward William, Jr. (LL.B.) B.M.E. 1939, Rensselaer Polytechnic Institute	Mont. Md.
B.N. 1930, Yale University A.M. 1941, The George Washington University		Osterman, Herbert William (LL.B.) B.S. 1944, University of Michigan	Mich.
Neller, Francis Hack (Uncl.) LL.B. 1933, Tulane University	Mich.	Owens, Walter Patrick (LL.B.)	D.C.
Nelson, Carlton Gustave (LL.M.) B.S.C. 1917, LL.B. 1919, University of North Dakota	N.D.	P	
Nelson, Lewis Clair (LL.B.) B.S. 1939, Utah State Agricultural College	Utah	Packard, Howard Merrill (LL.B.) B.S. 1932, Northwestern University	Ill.
New, Justin Derieux (LL.B.) New, Rex Sylvester, Jr. (Uncl.) Newlan, Joseph Human (LL.B.) A.B. 1942, The George Washington University	D.C. D.C. Pa.	Page, Helen Bell (LL.B.) A.B. 1928, The George Washington University	D.C.
Newmyer, Alvin Leroy, Jr. (LL.B.) B.S. 1939, University of Virginia	D.C.	Palmer, Carroll Funk (J.D.) B.S. 1940, University of Maryland	Md.
Niehuss, Louis Clark (LL.B.) A.B. 1940, University of Alabama	Ala.	Ph.D. 1944, University of Pennsylvania	
Nilsen, Sylvia Eugene (LL.B.) A.B. 1940, University of Utah	Utah	Patterson, Donald MacKelvey (LL.M.) B.S. in C.E. 1930, Bucknell University	N.Y.
Niswander, Frank Clyde (LL.B.) A.B. 1941, Colorado College	Mo.	J.D. 1944, The George Washington University	
Noble, Ben Paul (LL.B.) Nolte, William Robert (LL.B.) B.S. 1942, University of Illinois	Va. Md.	Patterson, Ernest Harold (LL.B.) B.S. 1942, Temple University	Pa.
		Pear, Philip (LL.B.) A.B. 1941, The George Washington University	D.C.
		Pederson, Wallace Henry (LL.B.) Pennegarher, Joseph Edmund (LL.B.)	Minn. N.Y.
		Perras, George Peter (LL.B.) A.B. 1940, The George Washington University	D.C.
		Peterson, Anne Lois (LL.B.) Pettit, Charles Joshua (LL.B.) A.B. 1936, Ohio University	Iowa D.C.



[illegible]



Rothe, Bertha Margarethe (LL.B.) A.B. 1914, A.M. 1915, B.S. in L.S. 1940, Syracuse University	D.C.	Shang, Yin Hua (Uncl.) LL.B. 1932, National Central Uni- versity, China	China
Rupert, Norma Morgan (LL.B.)	Ga.	Shannon, Richard Stoll, Jr. (Uncl.)	Colo.
Ruppert, Rose Mary (LL.B.) A.B. 1941, Dumbarton College of the Holy Cross	D.C.	A.B. 1938, Stanford University M.B.A. 1940, Harvard University	
Russell, Stuart Hamilton (LL.B.) A.B. 1941, The George Washington University	D.C.	Shapiro, Annette Devorah (LL.B.) A.B. 1942, The George Washington University	D.C.
Ryan, Mary Dolores (LL.B.)	D.C.	Sharpe, Harold (Uncl.)	Ark.
Rynerson, Wendell Price (Uncl.)	Ind.	LL.B. 1918, University of Arkansas	
A.B. 1926, De Pauw University		Shearin, Plummer Mustian (LL.B.)	N.C.
LL.B. 1929, Indiana University		B.S. 1936, Wake Forest College	
		Sheiner, Leo (LL.B.)	N.Y.
		A.B. 1931, LL.B. 1933, Cornell Uni- versity	
		Sheppe, Charles Joseph (LL.B.)	D.C.
		LL.B. 1933, University of Virginia	
		Sheridan, Philip Henry (LL.B.)	Mass.
		B.S. in E.E. 1944, Worcester Poly- technic Institute	
		Sherry, Edward Norman (LL.B.)	D.C.
		B.E.E. 1943, Syracuse University	
		Shick, James Robert (J.D.)	Oreg.
		A.B. 1940, Pacific University	
		Shine, Seymour Walter (LL.B.)	Md.
		B.B.A. 1940, College of the City of New York	
		Shreve, Mary Fairfax (LL.M.)	Va.
		A.B. 1935, College of William and Mary	
		Shuck, Virgil DeWitt (LL.B.)	Okla.
		A.B. 1937, Westminster College	
		M.B.A. 1943, Harvard University	
		Siwin, Ennice Perry (LL.M.)	Mass.
		A.B. 1938, Mount Holyoke College	
		LL.B. 1941, Boston University	
		Singley, Barbara Jean (Uncl.)	N.Y.
		A.B. 1943, Barnard College	
		Smith, J. Russell (LL.B.)	Utah
		Smith, Lawrence Sinclair (LL.B.)	Fla.
		A.B. 1910, University of Florida	
		Smith, Nora Oberlene (LL.B.)	N.H.
		Smith, Quayle Bowerman (LL.B.)	Md.
		A.B. 1940, Drake University	
		Smith, Randle Ross (LL.B.)	Ind.
		B.S. in M.E. 1936, Purdue University	
		Smith, T. Oscar (LL.B.)	Va.
		A.B. 1935, Lincoln Memorial Uni- versity	
		Smith, William Ellison (LL.B.)	D.C.
		Snavely, Charles Thomas (LL.B.)	W.Va.
		A.B. 1927, Lincoln Memorial Uni- versity	
		Snyder, Martha Frances (LL.B.)	Va.
		A.B. 1945, The George Washington University	
		Souder, Helen Warfield (LL.B.)	Md.
		Southerland, Edwin Williams (LL.B.)	Ga.
		B.S.C. 1937, LL.B. 1940, Uni- versity of Georgia	
		Southmayd, LeRoy, Jr. (LL.B.)	Mont.
		Sparkman, Joseph Ben (LL.B.)	Tex.
		B.S. 1942, Rice Institute	
		Spero, Abraham (LL.B.)	D.C.
		A.B. 1944, The George Washington University	
		Spindler, Pearl Goldstein (LL.B.)	N.Y.
		A.B. 1940, Hunter College	
		Spurlock, Eileen Mae (LL.B.)	W.Va.
		Stalker, Richard Wright (LL.B.)	Ariz.
		B.S. 1931, Oregon State College	
8			
Sacra, Wilbur Wilson, Jr. (LL.B.) A.B. 1934, Murray State Teachers College	Ky.		
Sander, Dora (LL.B.) A.B. 1942, Radcliffe College	D.C.		
Sanders, Lowell Lawrence (LL.B.) B.S. 1940, Indiana University	Ind.		
Sanderson, Robert Bruce (LL.B.) A.B. 1941, University of Akron	Ohio		
Sapiro, Allan Leroy (LL.B.) A.B. 1943, University of California	Calif.		
Saposs, Corinne Tigay (LL.B.) A.B. 1945, Smith College	D.C.		
Sargent, Charles Robert (LL.B.) A.B. 1941, University of California	Calif.		
Sarner, Ellen Virginia (LL.B.) B.S. in Ed. 1940, University of Pennsylvania	D.C.		
Sawyer, Calvin Parker (LL.B.) A.B. 1942, A.M. 1942, University of Chicago	Ill.		
Scanlan, Alfred Joseph (LL.B.) A.B. 1941, Columbia University	N.J.		
Schara, Earl Martin (LL.B.) Scherr, Robert Arthur (LL.B.)	D.C.		
A.B. 1942, University of Wisconsin	Wis.		
Schierman, Albert Howard (LL.B.) A.B. 1940, University of Idaho	Wash.		
Schneider, Homer James (LL.B.) B.S. 1942, University of Wisconsin	Wis.		
Schofield, Leslie Harrison (LL.B.) B.S. 1933, United States Naval Academy	Utah		
M.B.A. 1941, Harvard University			
*Schroeder, Warren Hughes (LL.B.) A.B. 1942, University of Nebraska	Neb.		
Schumm, Ruth Frances (LL.B.) A.B. and B.J. 1944, University of Texas	Tex.		
Schwartz, Louis (LL.B.) A.B. 1939, Brooklyn College	Va.		
Scott, John Reed, Jr. (LL.B.) B.S. 1943, University of Maryland	D.C.		
Scullen, Jessie Louise (LL.B.) A.B. 1943, Brown University	Mass.		
Seibel, Laurence Elias (J.D.) B.S. 1940, College of the City of New York	N.Y.		
Selander, Kenneth John (LL.B.) A.B. 1941, University of Washington	Wash.		
Shanafelt, Mary Corinne (LL.B.) A.B. 1940, Trinity College	D.C.		
*Deceased.			



Wilkins, William Yarborough, Jr. (LL.B.) B.S. 1937, University of North Carolina	Va.	Yost, Paul Nace (LL.B.) A.B. 1941, The George Washington University	Pa.
Williams, Theodore Gales (LL.B.)	Pa.	Young, George Wentworth (LL.B.)	N.Y.
Willis, John William (LL.B.) A.B. 1934, LL.B. 1937, University of California at Los Angeles	Va.	Young, Glenn Albert (LL.B.)	Va.
Wilson, Wallace Ancil (LL.B.)	Tenn.	Young, Llewellyn A. (LL.B.)	D.C.
Withers, John Pescud (LL.B.) A.B. 1936, University of North Carolina	N.J.	Young, Olive Emily (LL.B.) A.B. 1929, A.M. 1930, University of Rochester	N.Y.
M.S. 1938, Massachusetts Institute of Technology		Young, R. Herndon, Jr. (LL.B.)	Idaho
Woods, Russell Marshall (LL.B.)	Va.	A.B. 1938, College of Idaho	
Woodside, Walter Wesley (LL.B.)	Ill.	Yudkin, Leon (LL.M.)	N.Y.
Wright, Benjamin Lee, Jr. (LL.B.)	Colo.	B.S. 1942, LL.B. 1943, St. John's University	
Y			
Yang, Tigh-Yih (LL.B.) A.M. 1942, Yale University	D.C.	Z	
Yates, Robert Mallory (LL.M.) B.S. in M.E. 1939, University of New Mexico	N.M.	Zachry, William Brown, Jr. (LL.B.) A.B. 1941, University of Florida	Fla.
Yeats, J. Hugh (Uncl.)	Ga.	Zaid, Charles (LL.B.) A.B. 1933, Temple University	Pa.
		Zollers, Edna Marshall (LL.B.)	D.C.



## SUMMARIES OF REGISTRATION

FALL AND WINTER TERMS 1945-46

### GEOGRAPHICAL DISTRIBUTION OF STUDENTS

Alabama .....	4	New Jersey .....	14
Arizona .....	2	New Mexico .....	3
Arkansas .....	6	New York .....	43
California .....	17	North Carolina .....	5
Colorado .....	3	North Dakota .....	1
Connecticut .....	8	Ohio .....	26
District of Columbia.....	142	Oklahoma .....	10
Florida .....	8	Oregon .....	3
Georgia .....	7	Pennsylvania .....	37
Idaho .....	9	South Carolina .....	4
Illinois .....	20	South Dakota .....	3
Indiana .....	7	Tennessee .....	13
Iowa .....	8	Texas .....	12
Kansas .....	1	Utah .....	9
Kentucky .....	5	Vermont .....	2
Louisiana .....	1	Virginia .....	79
Maine .....	3	Washington .....	7
Maryland .....	42	West Virginia .....	8
Massachusetts .....	15	Wisconsin .....	9
Michigan .....	7	Wyoming .....	1
Minnesota .....	8	Brazil .....	1
Mississippi .....	7	China .....	1
Missouri .....	4	Panama .....	2
Montana .....	2	Puerto Rico .....	1
Nebraska .....	4		
New Hampshire .....	3	Total.....	638

### GRADUATES OF COLLEGES REGISTERED IN THE LAW SCHOOL

Agricultural and Mechanical College of Texas.....	1	Brigham Young University.....	1
Akron, University of .....	1	Brooklyn College .....	3
Alabama Polytechnic Institute...	1	Brown University .....	4
Alabama, University of.....	4	Bryn Mawr College.....	1
Albion College .....	1	Budapest, University of.....	1
Alma College .....	1	California, University of.....	8
American University .....	4	California at Los Angeles, University of .....	2
Amherst College .....	2	Carleton College .....	1
Amsterdam, University of.....	1	Carson-Newman College .....	1
Arizona, University of.....	3	Catholic University of America..	2
Arkansas, University of.....	2	Central Y.M.C.A. College, Chicago	1
Barnard College .....	1	Chattanooga, University of.....	1
Bates College .....	1	Chicago, University of.....	6
Bonn, University of.....	1	Cincinnati, University of.....	4
Boston University .....	3	Citadel, The .....	3
Bratislava, University of.....	1	Clark University .....	1

Clemson Agricultural College.....	1	Lincoln Memorial University.....	2
Colby College .....	3	Louisiana State University.....	1
Colorado College .....	1	Louisville, University of.....	1
Colorado, University of.....	1	Marquette University .....	1
Columbia University .....	6	Marshall College .....	2
Cornell University .....	3	Maryland, University of.....	8
Dartmouth College .....	2	Maryville College .....	1
Davidson College .....	1	Marywood College .....	1
Dayton, University of.....	1	Massachusetts Institute of Tech-	
Depauw University .....	1	nology .....	4
Dickinson College .....	1	Miami University .....	5
Drake University .....	1	Michigan College of Mining and	
Drexel Institute of Technology...	1	Technology .....	1
Duquesne University .....	1	Michigan State College of Agri-	
Duke University .....	2	culture and Applied Science...	1
Dumbarton College of the Holy		Michigan State Normal College..	1
Cross .....	1	Michigan, University of.....	9
East Tennessee State Teachers		Minnesota, University of.....	4
College .....	1	Mississippi, University of.....	2
Elon College .....	1	Missouri, University of.....	2
Fenn College .....	1	Morningside College .....	1
Florida State College for Women	1	Mount Holyoke College.....	1
Florida, University of.....	2	Murray State Teachers College..	1
Fordham University .....	3	National Central University, China	1
Georgetown University .....	2	Nebraska State Teachers College.	1
George Washington University, The	69	Nebraska, University of.....	4
Georgia School of Technology...	3	Nevada, University of.....	1
Georgia, University of.....	4	Newark, University of.....	1
Hamilton College .....	1	New Jersey State Teachers Col-	
Hamline University .....	1	lege .....	1
Harvard University .....	13	New Mexico, University of.....	3
Hastings College .....	1	New Rochelle, College of.....	1
Henderson State Teachers College	1	New York, College of the City of	12
High Point College.....	1	New York University.....	4
Hunter College .....	2	North Carolina, University of...	7
Idaho, College of.....	3	North Dakota Agricultural College	1
Idaho, University of.....	3	North Dakota, University of.....	1
Illinois College .....	1	Northeastern University .....	2
Illinois, University of.....	7	Northwestern University .....	4
Illinois Wesleyan University.....	1	Northwest Missouri State Teach-	
Indiana Central College.....	1	ers College .....	1
Indiana University .....	6	Oberlin College .....	1
Iowa State Teachers College.....	3	Occidental College .....	1
Iowa, University of.....	5	Ohio Northern University.....	1
John B. Stetson University.....	1	Ohio State University.....	8
John Brown University.....	1	Ohio University .....	3
Johns Hopkins University.....	2	Oklahoma City University.....	1
Kansas State College.....	1	Oklahoma, University of.....	6
Kent State University.....	1	Oregon State College.....	1
Kentucky, University of.....	1	Oregon, University of.....	1
Kenyon College .....	1	Pacific University .....	1
Lafayette College .....	1	Park College .....	1
Lake Forest College.....	1	Pennsylvania State College.....	4
Lawrence College .....	1	Pennsylvania State Teachers Col-	
Lehigh University .....	1	lege .....	1

Pennsylvania, University of.....	8	Texas, University of.....	2
Pittsburgh, University of.....	3	Trinity College.....	6
Pomona College.....	2	Tufts College.....	2
Princeton University.....	6	Tulane University.....	3
Puget Sound, College of.....	1	United States Military Academy..	2
Purdue University.....	5	United States Naval Academy...	9
Radcliffe College.....	4	Utah State Agricultural College..	2
Randolph-Macon Woman's College	1	Utah, University of.....	2
Redlands, University of.....	1	Vanderbilt University.....	3
Rensselaer Polytechnic Institute..	1	Villanova College.....	1
Rhode Island State College.....	1	Virginia Polytechnic Institute...	1
Rice Institute.....	1	Virginia State Teachers College,	
Richmond, University of.....	2	Radford.....	1
Rochester, University of.....	1	Virginia, University of.....	10
Rutgers University.....	4	Wake Forest College.....	1
St. John's University.....	2	Washburn College.....	3
St. Joseph's College.....	1	Washington College.....	1
St. Lawrence University.....	1	Washington and Lee University..	4
St. Paul College of Law.....	1	Washington, State College of....	2
San Diego State College.....	1	Washington University.....	2
Scranton, University of.....	1	Washington, University of.....	2
Simmons College.....	1	Wayne University.....	1
Smith College.....	3	Wellesley College.....	3
South Carolina, University of....	2	Wesleyan University.....	1
South Dakota, University of.....	2	Western Michigan College of Edu-	
Southeast Missouri State Teach-		cation.....	1
ers College.....	1	Western Reserve University.....	4
Southern California, University of	2	Westminister College.....	1
Southern Methodist University...	1	West Virginia University.....	3
Southwest Texas State Teachers		William Jewell College.....	1
College.....	1	William and Mary, College of....	6
Stanford University.....	4	Wilson College.....	1
State University of Iowa.....	1	Wisconsin, University of.....	12
Stevens Institute of Technology..	1	Worcester Polytechnic Institute..	3
Swarthmore College.....	1	Yale University.....	5
Syracuse University.....	6	Youngstown College.....	1
Temple University.....	3		
Tennessee College for Women....	1	Number of college graduates 496	
Tennessee, University of.....	6	Number of colleges represented 212	

### GENERAL SUMMARY

Students registered, fall and winter terms 1945-46:

Candidates for the degree of Bachelor of Laws and Juris Doctor:

	Men	Women	Total
First Year.....	303	52	355
Second Year.....	97	19	116
Third Year.....	59	11	70
Candidates for the degree of Master of Laws.....	36	3	39
Candidates for the degree of Doctor of Juridical Science..	4	2	6
Total candidates for degrees.....	499	87	586
Unclassified students.....	43	5	48
Special students.....	3	1	4
Total.....	545	93	638
Students registered, summer term 1945.....	253	72	325
Total registrations, 1945-46.....	798	165	963



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## EDUCATION OF VETERANS

### IN

## THE GEORGE WASHINGTON UNIVERSITY

The George Washington University is cooperating with the educational program for veterans by making its resources available to men and women honorably discharged from the services. While veterans are not placed in any special group but attend as individuals with all the rights and privileges granted any student, they have such additional privileges as the right to attend classes informally pending the beginning of the next term, special educational and vocational guidance from the Veterans' Guidance Center, and the services of the Veterans' Office.

### THE VETERANS' OFFICE

The Veterans' Office is a service bureau for veterans interested in studying at the University and acts in a liaison capacity between the University and the Veterans' Administration. It is here that veterans should apply for information concerning the educational program of the University, for assistance in admission and registration, and for full information concerning the educational provisions of the "GI Bill of Rights" and the Rehabilitation Act.

### PRELIMINARY TO ADMISSION

Prior to registration the veteran should obtain from the Regional Office of the Veterans' Administration, 300 Indiana Avenue, a Certificate of Entitlement or, if entitled to vocational rehabilitation, a letter approving training under Public Law 16 for presentation to the Veterans' office of the University at the time of registration. A photostatic copy of separation papers must accompany the application for the Certificate of Entitlement. Application for the Certificate or Letter should be made as soon as possible before the beginning of the term for which the veteran wishes to register.

### ADMISSION

Veterans who wish to apply for admission should follow the admission procedure outlined in this catalogue. If they wish to apply for credit for service schools successfully completed, they should submit to the Director of Admissions photostatic copies of service records indicating courses completed with sufficient identification of the course to enable the Admissions Office to locate it in the *Guide to the Evaluation of Educational Experience* in the Armed Forces. For veterans who are deficient in their regular requirements for admission, but who have been found by educational and psychological tests to be able to undertake college work, the University has made certain modifications in the entrance requirements. *Inquiries regarding admission should be addressed to the Director of Admissions.*

### REGISTRATION

During the registration period announced in the University Calendar which appears in this catalogue, the veterans may obtain registration blanks from the Registrar's Office by showing a letter of admission to the University.

### THE ACCELERATED PROGRAM

Veterans who wish to complete the regular four-year course in three years can do so by continuing their studies through the summer sessions. Beginning courses in many subjects are offered in each academic session, so that a student can conveniently enter the University in September, February, or June. By carrying a continuous program throughout the year with only the usual University vacations and periods of inactivity between terms, the veteran will be insured of no interruption in his subsistence payments from the Veterans' Administration.

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### BULLETINS FOR VETERANS

The special bulletins on veterans' educational opportunities at The George Washington University may be obtained from the Director of Veterans' Education.



THE CATALOGUE ISSUE

1946-47



THE  
GEORGE  
WASHINGTON  
UNIVERSITY  
BULLETIN

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VOL. XLV

No. 6

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THE CATALOGUE ISSUE

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WASHINGTON, D. C.

PUBLISHED IN DECEMBER  
MCMXLVI

BY THE UNIVERSITY



THE  
ARTS AND CRAFTS  
MUSEUM

THE ARTS AND CRAFTS MUSEUM  
OF THE UNIVERSITY OF CAMBRIDGE  
AND THE MUSEUM OF THE UNIVERSITY OF OXFORD  
THE ARTS AND CRAFTS MUSEUM  
OF THE UNIVERSITY OF CAMBRIDGE  
AND THE MUSEUM OF THE UNIVERSITY OF OXFORD  
THE ARTS AND CRAFTS MUSEUM  
OF THE UNIVERSITY OF CAMBRIDGE  
AND THE MUSEUM OF THE UNIVERSITY OF OXFORD

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THE UNIVERSITY CALENDAR

1946													1947																									
July													January													July												
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# THE UNIVERSITY CALENDAR

1946-47

Date	Day	Occasion
1946 FALL TERM:		
Sept. 24.....	Tuesday .....	Meeting of the University Faculty Examinations for students who wish to qualify for advanced courses
Sept. 25 and 26.	Wednesday and Thursday .....	Registration of students registered winter or summer term, 1946
Sept. 27.....	Friday .....	Registration of new students
Sept. 28.....	Saturday .....	General registration
Sept. 30.....	Monday .....	Academic year begins
Oct. 5 .....	Saturday .....	Last day for registration for credit for the fall term
Oct. 10.....	Thursday .....	Stated meeting of the Board of Trustees
Oct. 12.....	Saturday .....	Foreign-language examinations for candidates for the Master's de- grees.
Oct. 15.....	Tuesday .....	Last day on which candidates may file thesis subjects for the Master's degrees conferred in February
Oct. 26.....	Saturday .....	Fall Convocation
		Last day on which candidates may file thesis subjects for the degrees of Doctor of Philosophy and Doctor of Education to be conferred the following May
Nov. 28-30....	Thursday through Sat- urday .....	Thanksgiving recess
Dec. 3.....	Tuesday .....	Meeting of the Academic Council
Dec. 12.....	Thursday .....	Stated meeting of the Board of Trustees
Dec. 23-Jan. 1.	Monday through Wednesday .....	Christmas recess
1947 Jan. 2.....	Thursday .....	Classes resume
		Last day for applications for de- grees to be conferred in Feb- ruary
		Last day for receiving theses of candidates for the degrees of Doctor of Philosophy and Doc- tor of Education to be con- ferred in February



## THE UNIVERSITY CALENDAR—Continued

Date	Day	Occasion
Jan. 16.....	Thursday .....	Last day of classes for the fall term
Jan. 17-25.....	Friday through Saturday .....	Fall Term examination period in all colleges, schools, and divisions except the Law School
Jan. 20.....	Monday .....	Last day for receiving theses of candidates for the Master's degrees and for the professional degrees in Engineering to be conferred in February
Jan. 20-30.....	Monday through Thursday .....	Fall term examination period in the Law School
WINTER TERM:		
Jan. 27.....	Monday .....	Examinations for students who wish to qualify for advanced courses
Jan. 28.....	Tuesday .....	Registration of new students
Jan. 29 and 30..	Wednesday and Thursday .....	Registration of former students
Jan. 31.....	Friday .....	Classes resume for the winter term
Feb. 1.....	Saturday .....	Foreign-language examinations for candidates for the Master's degrees
Feb. 7.....	Friday .....	Last day for registration for credit for the winter term
Feb. 13.....	Thursday .....	Stated meeting of the Board of Trustees
Feb. 14.....	Friday .....	Last day on which candidates may file thesis subjects for the Master's degrees to be conferred in May
Feb. 22.....	Saturday .....	Winter Convocation. Holiday
March 1.....	Saturday .....	Applications for fellowships for 1947-48 should be filed
March 13.....	Thursday .....	Stated meeting of the Board of Trustees
March 25.....	Tuesday .....	Meeting of the University Faculty
April 4 and 5..	Friday and Saturday ..	Easter recess
April 14.....	Monday .....	Pan American Day Convocation
April 17.....	Thursday .....	Last day for receiving theses of candidates for the degrees of Doctor of Philosophy and Doctor of Education to be conferred in May

THE UNIVERSITY CALENDAR—Continued

Date	Day	Occasion
April 17.....	Thursday .....	Last day on which candidates may file thesis subjects for the degrees of Doctor of Philosophy and Doctor of Education to be conferred the following February
April 29.....	Tuesday .....	Meeting of the Academic Council
May 1.....	Thursday .....	Last day for applications for degrees to be conferred in May
		Applications for scholarships for 1947-48 should be filed.
May 3.....	Saturday .....	Foreign-language examinations for candidates for the Master's degrees
May 5.....	Monday .....	Last day for receiving theses of candidates for the Master's degrees and for the professional degrees in Engineering to be conferred in May
May 13.....	Tuesday .....	Last day of classes for the winter term
May 14-24....	Wednesday through Saturday .....	Winter term examination period
May 22.....	Thursday .....	Annual meeting of the Board of Trustees
May 25.....	Sunday .....	Baccalaureate Sermon
May 28.....	Wednesday .....	Commencement
<b>SUMMER TERM*:</b>		
June 2.....	Monday .....	Registration for the first session of the summer term
July 4.....	Friday .....	Independence Day. Holiday
July 23.....	Wednesday .....	First summer session ends
July 24.....	Thursday .....	Registration for the second session of the summer term
Sept. 1.....	Monday .....	Labor Day. Holiday
Sept. 12.....	Friday .....	Second summer session ends
Sept. 24-27....	Wednesday through Saturday .....	Registration for the fall term of the academic year 1947-48

\* In the Law School, summer-term opening and closing dates are as follows. June 2, Monday, first term begins. July 26, Saturday, first term ends; July 28, Monday, second term begins; September 20, Saturday, second term ends.





OFFICERS AND COMMITTEES  
OF THE UNIVERSITY



## THE BOARD OF TRUSTEES

The Board of Trustees of the University is composed of the President of the University ex officio and the following persons by election:

1947

Avery DeLano Andrews, B.S., LL.B.; Winter Park, Florida  
Clarence Aiken Aspinwall; 1140 Fifteenth Street  
Lyman James Briggs, Ph.D., Sc.D., D.Eng., LL.D.; National Bureau of Standards  
Henry Parsons Erwin, A.B.; Hibbs Building  
Mrs. Joshua Evans, Jr., A.B., Ed.D.; 3405 Lowell Street  
\*Robert Elliott Freer, A.B., LL.M.; Federal Trade Commission  
John Edgar Hoover, LL.M., LL.D.; United States Department of Justice  
Walter Rupert Tuckerman, A.B., LL.B.; 5415 Edgemoor Lane, Bethesda, Maryland  
\*Alexander Wilbourne Weddell, LL.B., Litt.D., LL.D.; Virginia House, Richmond, Virginia  
Chester Wells, B.S., Graduate United States Naval War College; Colorado Building

1948

\*George Edgar Fleming, LL.M.; Union Trust Company  
\*Thomas Leigh Gatch, Graduate United States Naval Academy, LL.B., LL.D.; Department of the Navy  
Charles William Gerstenberg, Ph.B., LL.B., J.D.; 70 Fifth Avenue, New York City  
Ulysses S. Grant, 3d, B.S., Graduate United States Engineers School; National Capital Park and Planning Commission  
Gilbert Grosvenor, A.M., LL.D., Litt.D.; National Geographic Society  
Alfred Henry Lawson, LL.B.; Washington Loan and Trust Company  
Lloyd Bennett Wilson; 725 Thirteenth Street

1949

John St. Clair Brookes, Jr., A.M., LL.B.; Edmonds Building  
John Henry Cowles, LL.D.; 1733 Sixteenth Street  
Homer Cummings, Ph.B., LL.B., LL.D., L.H.D.; 1616 K Street  
\*Newell Windom Ellison, A.B., LL.B.; 740 Fifteenth Street

\* Nominated by the alumni.



Robert Vedder Fleming, LL.D.; Riggs National Bank  
Charles Carroll Glover, Jr., A.M., LL.B.; Riggs National Bank  
Mrs. Henry Alvah Strong, LL.D.; Normandy Building  
Merle Thorpe, A.B.; 708 Colorado Building  
Alexander Wetmore, Ph.D., Sc.D.; Smithsonian Institution  
\*Charles Stanley White, M.D., Sc.D.; 1801 I Street

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*Chairman of the Board of Trustees*  
Robert Vedder Fleming

*Secretary of the Board of Trustees*  
Henry Parsons Erwin

*Assistant Secretary of the Board of Trustees*  
Newell Windom Ellison

---

\* Nominated by the alumni.

## STANDING COMMITTEES OF THE BOARD OF TRUSTEES

The Chairman of the Board of Trustees and the President of the University shall be members ex officio of each of the committees of the Board. The President of the University shall be Chairman of the Executive Committee.

### EXECUTIVE COMMITTEE

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Mr. Tuckerman

### COMMITTEE ON EDUCATIONAL POLICY

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Mr. Hoover; Mr. Weddell

### COMMITTEE ON ENDOWMENT FUNDS

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Mr. Wilson

### COMMITTEE ON FINANCE

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Mr. Wells

### COMMITTEE ON NOMINATION OF TRUSTEES

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Mr. Hoover

### COMMITTEE ON HONORS

Mr. Grosvenor, *Chairman*; Mr. Gerstenberg; Mr. Tuckerman;  
Mr. Weddell

### COMMITTEE ON ALUMNI RELATIONS

Mr. Ellison, *Chairman*; Mr. Clark; Mrs. Evans; Admiral Gatch

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Mr. Briggs, *Chairman*; Mr. Cummings; Mr. George E. Fleming;  
Mr. Lawson

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Admiral Gatch

## COMMITTEE ON BUILDINGS AND LANDS

Mr. Lawson, *Chairman*; Mr. Glover; General Grant; Mr. Tuckerman;  
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\* On war leave 1946-47.

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THE UNIVERSITY



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### HISTORY

The idea of a university located in the Capital of the Nation was sponsored by George Washington, who during his public life urged the establishment of such an institution and who in his will left fifty shares of stock in the Potomac (Canal) Company for the endowment of a university to be established in the District of Columbia "to which the youth of fortune and talents from all parts thereof might be sent for the completion of their Education in all the branches of polite literature;—in arts and Sciences,—in acquiring knowledge in the principles of Politics & good Government".

It was George Washington's hope that the "General Government" would extend toward such an institution "a fostering hand". No steps were taken by Congress to carry out the provision of Washington's will, and the stock that he had bequeathed for the establishment of a university in the District of Columbia became valueless owing to the failure of the Potomac Canal properties.

Meanwhile, however, a movement was started by private persons under the leadership of Luther Rice to establish an institution of higher learning at the seat of the National Government for the education of the Baptist ministry and to afford general collegiate training. In 1819 an association was formed by Luther Rice, Obadiah B. Brown, Spencer H. Cone, and Enoch Reynolds for the purpose of raising funds to buy land for the use of the college.

A group of the Nation's leaders who were especially interested in Washington's idea became patrons of the college and contributed to funds raised for the purchase of land and erection of buildings. Among them were James Monroe, President of the United States; William H. Crawford, Secretary of the Treasury; John C. Calhoun, Secretary of War; William Wirt, Attorney General; Return J. Meigs, Postmaster General; and thirty-two members of the Congress.

Legally to implement the college a petition was made to Congress for the incorporation of "the General Convention of the Baptist Denomination in the District of Columbia for evangelical and literary purposes". This petition was denied by Congress, on April 26, 1820, because of its sectarian character.

Failing to obtain a denominational charter, members of the association enlarged their objective to embrace national aims, and with the sponsorship of Government leaders there was presented in Congress a bill for the incorporation of "the Columbian Society for literary purposes", it being proposed to realize in this way "the aspirations of Wash-

ington, Jefferson and Madison for the erection of a university at the seat of the federal government".

Acting upon this second petition, on February 9, 1821, Congress chartered Columbian College in the District of Columbia, inserting in the charter by special action the provision "That persons of every religious denomination shall be capable of being elected Trustees; nor shall any person, either as President, Professor, Tutor or pupil, be refused admittance into said College or denied any of the privileges, immunities or advantages thereof, for or on account of his sentiments in matters of religion".

Thus Columbian College in the District of Columbia was chartered by Congress as one of the early nonsectarian institutions of higher learning in the United States, under the distinguished favor of President James Monroe and members of his Cabinet.

A tract of approximately forty-seven acres, extending about one-half mile northwest of Boundary Street (Florida Avenue) between 14th and 15th Streets, was purchased and by 1822 the main building was completed sufficiently to use.

Two years later, when the first Commencement was held on December 15, 1824, Congress and the Supreme Court adjourned their sessions to enable their members to attend the exercises. President Monroe, John Quincy Adams, John C. Calhoun, Henry Clay, and the Marquis de Lafayette headed the eminent company in attendance.

The School of Medicine, established in 1821, was formally opened in 1825 and has been in continuous operation since that time. The Law School, organized in 1826, was discontinued the following year, and was reestablished in 1865. It is the oldest law school in Washington.

By an act of Congress of March 3, 1873, the name of the college was changed to "Columbian University", in recognition of the enlarged scope of the institution. In 1884 the University was moved from its first location on "College Hill", now Columbia Heights, to the new University Hall built for it at Fifteenth and H Streets. Near-by buildings accommodated the School of Medicine.

For a period of six years, from 1898 to 1904, the University was placed under control of the Baptist Denomination. In 1904 an act restoring the original secular character of the University and authorizing change of name to The George Washington University was passed by Congress.

Subsequently all the colleges, schools, and divisions of the University except the School of Medicine, which is situated on H Street between Thirteenth and Fourteenth Streets NW., were brought together at the present location in the city block bounded by Twentieth, Twenty-first, G, and H Streets NW., and in the blocks adjacent.

In 1930 a new plan of academic organization for the liberal arts work was effected. The Junior College was established, comprising the



work of the freshman and sophomore years. The junior and senior years were retained in Columbian College, which was designated the senior college of letters and sciences. As a further step, the year of study leading to the Master's degree was separated from the graduate work for the Doctor's degree and assigned to Columbian College. The Graduate Council was organized to administer the work for the degree of Doctor of Philosophy. These innovations were accompanied by the establishment of a carefully controlled independent study plan, the grouping of departments of instruction under the divisional type of organization, and the institution of a new plan of administration both for the undergraduate major and for the Master's work.

#### THE COLLEGES, SCHOOLS, AND DIVISIONS

The George Washington University includes fourteen colleges, schools, and divisions, as follows: the Junior College; Columbian College, the senior college of letters and sciences; the Graduate Council; the School of Medicine; the Law School; the School of Engineering; the School of Pharmacy; the School of Education; the School of Government; the Division of University Students; the Division of Special Students; the Division of Extension; the Inter-American Center; and the Summer Sessions.

#### ACADEMIC STATUS

The George Washington University is on the approved list of the Association of American Universities, the standard accrediting body for the United States. This fact not only assures to students the academic standards of this accrediting body, but also is important to those who desire to transfer credits from one institution to another.

The University is also accredited by its regional accrediting agency, the Middle States Association of Colleges and Secondary Schools, and is on the approved list of the American Association of University Women.

The Law School is a charter member of the Association of American Law Schools and is approved by the Council of Legal Education of the American Bar Association. The School of Medicine is a member of the Association of American Medical Colleges, is one of the medical colleges which have been designated continuously as "class A" by the American Medical Association, and is accredited for all its work by the Combined (Royal) Medical Examining Boards in England. The School of Pharmacy is accredited by the American Council on Pharmaceutical Education and is a member of the American Association of Colleges of Pharmacy. The School of Engineering is on the accredited list of the Engineers' Council for Professional Development.

## LOCATION

The George Washington University is in downtown Washington, four blocks west of the White House and east of the Potomac River with its extensive parkway. Within a few blocks are many of the departments of the Government, including the Department of State, the Department of the Treasury, the Department of War, the Department of Justice, the Department of the Navy, the Department of the Interior, the Department of Agriculture, the Department of Commerce, and the Department of Labor. The Corcoran Gallery of Art, the Pan American Union Building, and the National Academy of Sciences are also near by, and the Capitol, the Library of Congress, and the National Gallery of Art are readily accessible to the University.

## GOVERNMENT

The government and general educational management of The George Washington University are vested in a self-perpetuating Board of Trustees, with the President of the University as member *ex officio*. The members of the Board are named for a period of three years and are divided into three classes. The members of one class are elected at each annual meeting to fill the places of the members whose terms of office expire. Two members of each class are nominated by the Alumni Association.

## ENDOWMENT

The endowment of the University is \$2,500,000.

## EDUCATIONAL FACILITIES

### BUILDINGS

Buildings, grounds, and equipment are valued at approximately \$6,000,000.

The buildings of the Junior College, Columbian College, the Graduate Council, the Law School, the School of Engineering, the School of Pharmacy, the School of Education, the School of Government, the Division of University Students, the Division of Special Students, and the Division of Extension are grouped in the vicinity of Twenty-first and G Streets NW. The School of Medicine, the University Hospital, and the Dispensary are situated at Fourteenth and H Streets NW. The buildings of the University are as follows:

- Corcoran Hall, 725 Twenty-first Street. Named in honor of the late William W. Corcoran, benefactor of the University and a former member of the Board of Trustees. Office of the Comptroller; offices of the School of Pharmacy and the School of Engineering; the chemistry, electrical engineering, pharmacy, and physics laboratories; classrooms.
- Faculty Club House, 714 Twenty-first Street.
- Gymnasium, 2010-12 H Street. Offices of the Department of Physical Education for Men.
- Hall of Government, 710 Twenty-first Street. The gift of Mrs. Henry Alvah Strong, Trustee of the University. Offices of the School of Government; of the departments of Business Administration, Economics, History, Political Science, and Statistics.
- Hospital and Dispensary, 1339 H Street.
- International House, 2121 G Street. Offices of the Adviser to Students from Foreign Countries and the Director of the Inter-American Center; club rooms.
- Lisner Auditorium, 730 Twenty-first Street. The gift of Abram Lisner, late Trustee of the University. The Auditorium; offices and classrooms of the Department of Speech.
- Mechanical Engineering Building, 735 Twenty-first Street. Offices of the School of Engineering; engineering testing laboratories, general laboratories, drafting rooms, and classrooms.
- Office of the President, 2003 G Street.
- School of Medicine, 1335 H Street. Offices of the Staff of the School of Medicine: anatomy, bacteriology, biochemistry, histology and embryology, pathology, pharmacology, and physiology laboratories; the Medical Library; lecture rooms; classrooms; students' rooms.
- Sorority Halls:
- 2129 G Street. Apartments of Pi Beta Phi, Sigma Kappa, Phi Mu, Alpha Delta Pi, Delta Zeta, Zeta Tau Alpha, and Kappa Kappa Gamma sororities.
- 2131 G Street. Apartments of Delta Gamma Sorority and Martha Washington Club.
- 802 Twenty-first Street. Apartments of Chi Omega and Kappa Delta sororities.
- Stockton Hall, 720 Twentieth Street. Named in honor of the late Rear Admiral Charles Herbert Stockton, President of the University from 1910 to 1918. Offices, library, and lecture halls of the Law School.



- Staughton Residence Hall for Women, 707 Twenty-second Street. Named in honor of William Staughton, the first President of the University (1821-1827).
- Strong Residence Hall for Women, 620 Twenty-first Street. Named in honor of the donor, Mrs. Henry Alvah Strong.
- University Library, 2023 G Street. The gift of Abram Lisner, late Trustee of the University. The library; rooms of the Board of Trustees and the Graduate Council.
- Veterans' Club, 722 Twenty-second Street.
- Woodhull Building, 2033 G Street. Gift of the late General Maxwell Van Zandt Woodhull, former Trustee of the University. Offices of the Director of Activities for Women and the Student Council; meeting rooms for student activities and the Columbian Women.
- Building A, 2026 G Street. Offices of the department of Romance Languages.
- Building B, 2024 G Street. Laboratories and classrooms of the Department of Home Economics.
- Building C, 2029 G Street. Offices of the Registrar, the Director of Admissions, and the Dean of the Division of Special Students; offices and laboratories of the departments of Biology, Botany, and Zoology; the Student Club; classrooms.
- Building D, 2013 G Street. Offices of the Dean of the Junior College, the Dean of Columbian College, the Dean of the Division of University Students, the Dean of the School of Education, and the Business Manager; offices of the departments of Art, Classical Languages, Education, English, Geography, Germanic Languages, Mathematics, Philosophy, Psychology, and Secretarial Studies; classrooms.
- Building F, 700 Twentieth Street. Office of the Director of the Division of Extension.
- Building G, 712 Twentieth Street. Offices of the University Physician for Women and of the Department of English.
- Building H, 714-16 Twentieth Street. Offices and locker rooms of the Department of Physical Education for Women.
- Building I, 2128 H Street. Pharmacy research laboratories.
- Building J, 2131 G Street (rear). Classroom and locker rooms of the Department of Physical Education for Women.
- Building L, 2129 G Street (rear). Classrooms of the Department of Physical Education for Women.
- Buildings M and N, 716-18 Twenty-first Street. Office of the Alumni Secretary; offices of student publications.
- Building O, 2025 H Street. Residence Hall for women.
- Building R, 2027 H Street. Offices of the Director of Activities for Men and the Athletic Staff.
- Building S, 2029 H Street. Office of the Director of Veterans' Education.

#### THE UNIVERSITY LIBRARY

The University Library contains more than 160,000 volumes. The well equipped Library building houses all of the library except the law and medical collections. Over 5,000 bound volumes are added annually, and approximately 750 periodicals and publications of learned societies are received currently. Among the special collections of the Library are the Richard Heinzel Collection of Germanic philology and literature; the Curt Wachsmuth Collection of Greek and Roman literature, archeology, and history; the Mount Vernon Collection on political



history, international law, and the social sciences; a representative collection of Spanish American books, the gift of the governments of Hispanic America; the Chauncey Mitchell Depew Public Speaking Collection, the gift of the late Mrs. Depew; and the Art Collection, which contains about 1,000 volumes made available by the American Institute of Architects, and the 7,500 mounted photographs of the Russell Sturgis Collection.

#### OTHER LIBRARY FACILITIES

The student has access also to the Library of Congress; the Public Library of the District of Columbia and its branches; the Library of the Carnegie Endowment for International Peace; the Library of the Pan American Union; the Library of the Bureau of Railway Economics; the Library of the United States Department of Agriculture, with its scientific departmental collections; the Library of the United States Office of Education; the Army Medical Library; the Library of the Smithsonian Institution; and many of the other great special collections of the government departments.

#### GOVERNMENTAL INSTITUTIONS ACCESSIBLE TO STUDENTS

The Congress of the United States has made the scientific resources of the Government accessible to students under the terms of the following joint resolution, approved April 12, 1892:

*Resolved by the Senate and House of Representatives of the United States of America, in Congress assembled, That the facilities for research and illustration in the following and any other Governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:*

- One. Of the Library of Congress.
- Two. Of the National Museum.
- Three. Of the Patent Office.
- Four. Of the Bureau of Education.
- Five. Of the Bureau of Ethnology.
- Six. Of the Army Medical Museum.
- Seven. Of the Department of Agriculture.
- Eight. Of the Fish Commission.
- Nine. Of the Botanic Gardens.
- Ten. Of the Coast and Geodetic Survey.
- Eleven. Of the Geological Survey.

## ADMISSION

All departments of the University accept men and women.

Students may enter any college, school, or division of the University except the School of Medicine at the beginning of the fall term, the winter term, or either session of the summer term.

Entrance to the School of Medicine in 1946-47 is permitted only at the opening of the term beginning September 30, 1946.

### GENERAL ADMISSION REQUIREMENTS

The following factors are considered in determining the eligibility of an applicant for admission:

1. The adequacy of previous academic work as preparation for the course of study now contemplated—including quantity and quality of work and the standing of the institution in which it was done.
2. The aptitude of the student for the course contemplated.
3. The character of the student.

The University reserves the right to refuse admission to any student who has a previous academic record of such grade as to create doubt of his ability to pursue college work successfully, or who for any other reason would not be a desirable student.

### APPLICATION FOR ADMISSION

An applicant for admission must obtain from the Office of the Director of Admissions an application blank which he must fill out completely and return. A recent photograph, with signature, of the applicant must be attached to the blank.

*Applications should be filed not later than July 1 for the fall term, January 1 for the winter term, and May 1 for the summer term. Applications for admission to the School of Medicine\* should be filed as far in advance as possible because qualified applicants far outnumber the capacity of the School.*

*An applicant from a secondary school must send the high school record form provided by the University to his high school principal with the request that the principal fill out the form and mail it direct to the Office of the Director of Admissions.*

*An applicant who has previously attended an institution of higher learning must request the registrar of that institution to mail directly to the Office of the Director of Admissions a transcript of his record. If*

\* A fee of \$3 to defray the costs of completing the records for final consideration for admission to the School of Medicine must accompany each application.

he has attended more than one such institution he must request the registrar of each institution to send to the Office of the Director of Admissions a transcript of his record, *even though credits were not earned*, together with an honorable dismissal from the institution last attended.

The Graduate Record Examination sponsored by the Carnegie Foundation for the Advancement of Teaching is accepted as supplemental evidence of the applicant's educational attainment, and the appropriate report should accompany the application for admission whenever available.

### METHODS OF ADMISSION

#### FROM SECONDARY SCHOOLS

An applicant from a secondary school may be admitted by certificate or examination.

##### By Certificate

A certificate of graduation with a minimum of fifteen "units"\* from an accredited secondary school and the recommendation from the principal of the secondary school that the applicant is prepared to undertake college work will be accepted subject to the following conditions:

1. If the school is accredited by the regional accrediting association, the student must rank not lower than the third fifth of his class.
2. If the school is not listed by the regional accrediting association, but has been accredited by the state accrediting agency, the student must rank in the upper two fifths of his class.

The Committee on Admission and Advanced Standing may review the case of a student in the third or fourth fifth and, when such action is warranted by evidence of progress in the last two years of work, may permit such a student to take a special aptitude test, from the results of which the committee will determine his eligibility or ineligibility.

##### By College Entrance Board Examinations

An applicant who cannot be admitted by certificate may qualify by passing satisfactorily College Entrance Board examinations as prescribed by the Director of Admissions. These examinations are given at The George Washington University on April 6, 1946; June 1, 1946; and September 7, 1946.

Arrangements for the examination should be made with the College Entrance Examination Board, 431 West 117th Street, New York City, not less than one month before the date of the examinations.

\* A unit represents a year's study in a secondary school subject, including in the aggregate not less than 120 sixty-minute periods of prepared classroom work.



## FROM HIGHER INSTITUTIONS\*

An applicant for advanced standing is admitted upon the presentation of satisfactory credentials from an accredited institution of higher learning. The student must be in good standing as to scholarship and conduct, and must be eligible to return to the previously attended institution in the term for which he seeks admission to this University.

If the transcript of record from such an institution includes the record of his secondary school work, it is not necessary for the applicant to have forwarded a separate record directly from the principal of the secondary school. High school work is considered only as fulfilling entrance requirements; it is never credited toward advanced standing.

Properly certified courses taken at accredited colleges or universities may be applied toward a degree at this University, subject to the curriculum requirements and regulations of the school or college to which admission is sought. Work of low pass grade (such as *D* or the equivalent) may not be considered for transfer.

## ENTRANCE REQUIREMENTS

## THE JUNIOR COLLEGE

An acceptable certificate of graduation from an accredited secondary school, or the satisfactory passing of College Entrance Board examinations selected with the approval of the Director of Admissions is required. (See "Methods of Admission".)

*Distribution of Units for All Curricula except Premedical.*—Except for admission to the premedical curriculum, certification by the principal that the student has satisfied all curriculum requirements of the school will be accepted in lieu of any prescribed distribution of units. Attention is called, however, to the necessity of completing stated prerequisite studies during the secondary school period for admission to certain curricula. It is to be noted that one unit of algebra is prerequisite to courses in chemistry, mathematics, physics, and statistics and that in addition one unit of plane geometry is prerequisite to courses in mathematics and physics. In the instance of applicants who do not meet the above stated mathematics requirements, algebra and plane geometry may be taken without college credit in the Extension Division of the University. Concurrent registration in the Extension Division and Junior College is permitted. For a statement of the foreign-language requirements see pages 54 and 55.

*Distribution of Units for the Premedical Curriculum.*—The several state medical boards govern the granting of licenses to practice; hence their requirements as to high school credits must be met exactly. The

\* The University reserves the right to refuse advance credit in whole or in part, or to allow it provisionally. Credit so given may be withdrawn for subsequent poor work.



fifteen units required must include three in English, two in one foreign language, one in algebra, one in geometry, one in history, and one in science (botany, chemistry, physics, or zoology). Eleven of the units offered must be in the above subjects.

#### COLUMBIAN COLLEGE (THE SENIOR COLLEGE)

##### For the Bachelor's Degrees

Two years of Junior College work leading to the degree of Associate in Arts, or the lower-division work in institutions not organized on the junior-senior-college plan, following a specified curriculum, meet the minimum requirements of Columbian College. In addition, however, scholarship requirements for admission may be set somewhat higher than those for graduation from the Junior College.

*Bachelor of Arts*—An Associate in Arts degree based on curriculum A-I\* in the Junior College, or the equivalent (see page 55), is required.

*Bachelor of Science*—An Associate in Arts degree based on curriculum A-II\* in the Junior College, or the equivalent (see pages 55 and 56), is required.

##### For the Master's Degrees

An approved Bachelor's degree from an accredited higher institution is required. A student from an unaccredited institution may be admitted at the discretion of the Committee on Admission and Advanced Standing, but he will be required to take such extra work above the minimum requirements as may be prescribed. A superior quality of work in the major field is essential.

Applications for admission must be approved by the department or division and by the Dean.

*Master of Arts*.—The student's undergraduate curriculum must include a program of study substantially equivalent to a major in his chosen field, together with an appropriate distribution of courses in other fields, or he must complete this prerequisite work in addition to that required for the Master's degree.

*Master of Science*.—The student's undergraduate curriculum must include the equivalent of the undergraduate major of the scientific department under which he desires to work.

#### THE GRADUATE COUNCIL

*Doctor of Philosophy*.—The student must possess an adequate academic preparation for advanced study in the proposed field, as evidenced by approved Bachelor's and Master's degrees, or the equivalent, together with acceptable personal qualities and capacity for creative work.

\*An Associate in Arts degree based on curriculum A-II is acceptable for the combined Bachelor of Arts and Doctor of Medicine degrees. For details see "Curriculum Requirements", under Columbian College.

## THE SCHOOL OF MEDICINE

*Doctor of Medicine.*—Sixty credit hours\* of work, exclusive of physical education, in an accredited higher institution are required. Premedical college requirements must be completed (see curriculum B on page 56).

## Specific Educational Requirements

## SECONDARY SCHOOL REQUIREMENTS

Of the fifteen secondary school units required, three must be in English, two in one foreign language (ancient or modern), one in algebra, one in geometry, one in history, and one in science (botany, chemistry, physics, or zoology). Eleven of the units offered must be in English, foreign language, mathematics, science, and history.

## PREMEDICAL COLLEGE REQUIREMENTS

## SIXTY CREDIT HOURS

1. Chemistry, sixteen credit hours as follows: (a) eight credit hours in general inorganic chemistry, of which at least four credit hours are laboratory work (qualitative analysis may be counted as general inorganic chemistry); (b) eight credit hours or a one-year college course of organic chemistry, including laboratory work.
2. Physics, eight credit hours, of which at least two credit hours are laboratory work. It is recommended that this course be preceded by one in trigonometry.
3. Biology, eight credit hours, of which at least four credit hours are laboratory work. This requirement may be satisfied by a course of eight credit hours in either general biology or zoology, or by four credit hours each in zoology and botany, but not by botany alone.
4. English composition and literature, six credit hours: the usual introductory college course or the equivalent. The student should develop facility in speaking and writing English.
5. Modern foreign language: a reading knowledge, preferably of French or German.
6. Electives. It is recommended that the remaining credit hours required include: (a) comparative vertebrate anatomy; (b) qualitative and quantitative chemical analysis; (c) social science and psychology.

## Advanced Standing

A student who has satisfactorily attended one or two years at any other "class A" medical school, and who has the necessary preliminary educational requirements, may be admitted to advanced standing.

\* Beginning September 1947, premedical college requirements must total ninety credit hours, exclusive of Physical Education.

## THE LAW SCHOOL

## For the Degrees in the Professional Course

*Bachelor of Laws.*—Not less than one-half the work necessary for graduation from an approved college or university is required.

Students in The George Washington University preparing for admission to the Law School must complete satisfactorily the requirements for the Associate in Arts degree of the Junior College or attain full junior standing in the School of Engineering of this University. The Junior College curricula in physical education and home economics are not acceptable for this purpose.

*Juris Doctor.*—The degree of Bachelor of Arts or the equivalent from an approved college or university is required.

## ADVANCED STANDING

Advanced standing toward the degree of Bachelor of Laws may be granted only for work successfully completed in other law schools which are members of the Association of American Law Schools.

Advanced standing toward the degree of Juris Doctor will not be granted for work in other law schools.

## For the Degrees in the Graduate Course

*Master of Laws.*—Not less than two years of college work in an approved college or university and the degree of Bachelor of Laws from an approved law school are required.

*Master of Comparative Law.*—The following are required: (1) the successful completion of and graduation from a course in arts, philosophy, letters, or sciences, equivalent to graduation from a gymnasium, lycee, or liceo (junior college); and (2) graduation in law from a recognized foreign university where training was in Civil Law.

*Doctor of Juridical Science.*—The following are required: (1) the degree of Juris Doctor from this Law School; or (2) the degree of Bachelor of Arts from an approved college, the degree of Bachelor of Laws or the equivalent, earned with high rank, from an approved law school, outstanding capacity for scholarly work in the field of law, and acceptance as a candidate by the Dean's Council of the Law School.

## Unclassified Students

A person eligible for admission to regular standing but not a candidate for a degree may, at the discretion of the Dean, be admitted as an unclassified student.

A person who is in good standing as a candidate for a degree in another approved law school may, at the discretion of the Dean, be admitted as an



unclassified student. Work taken by an unclassified student will not be accepted for credit toward a degree at this Law School.

#### THE SCHOOL OF ENGINEERING

*Bachelor of Civil Engineering, Bachelor of Electrical Engineering, Bachelor of Mechanical Engineering, Bachelor of Science in Engineering.*—An acceptable certificate of graduation from an accredited secondary school, or the satisfactory passing of College Entrance Board examinations in secondary school subjects selected with the approval of the Director of Admissions is required.

Nine and one-half of the fifteen units required for entrance must be distributed as follows: three in English, two in algebra, one in plane geometry, one-half in plane trigonometry, one in physics or chemistry, and two in one foreign language or history. A graduate of an approved high school who does not offer for admission the particular subjects required for the engineering curriculum, but who does present not less than fifteen acceptable units, may be admitted on condition, if such deficiency in the distribution of units does not exceed two units. If the deficiency is more than two units, it is frequently possible to admit an otherwise qualified student to the Junior College (liberal arts college) as an unclassified student for such period as may be necessary to permit him to make up such units by taking college courses designed for this purpose.

#### THE SCHOOL OF PHARMACY

*Bachelor of Science in Pharmacy.*—An Associate in Arts degree based on the curriculum in Pharmacy\* in the Junior College, or the equivalent is required.

A student who has received a Bachelor's degree from an accredited institution or who has completed work in the general cultural or foundational subjects of the pharmacy curriculum may be admitted to advanced standing. No more than one year of advanced standing will be granted a student from any institution other than an accredited college of pharmacy.

*Master of Science in Pharmacy.*—A Bachelor of Science degree from an accredited institution is required.

#### THE SCHOOL OF EDUCATION

##### For the Bachelor's Degrees

*Bachelor of Arts in Education, Bachelor of Science in Home Economics, Bachelor of Science in Physical Education.*—An Associate in Arts degree based on curriculum D-I,\* D-II,\* or D-III-IV\* in the Junior College, or the equivalent from another accredited higher institu-

\* See curricula on pages 57 and 58.



tion, or a certificate of graduation from an approved normal school or the equivalent is required.

#### For the Master's Degree

*Master of Arts in Education.*—A Bachelor's degree from an accredited institution, or the completion of a course of study that is the equivalent is required. A student from an unaccredited institution whose work is judged by the Faculty to be not more than twelve credit hours short of that required for an approved Bachelor's degree may remove his deficiencies while registered for the Master's degree.

#### For the Doctor's Degree

*Doctor of Education.*—The degree of Master of Arts in Education or the equivalent, and at least three years of satisfactory educational experience are required.

### THE SCHOOL OF GOVERNMENT

#### For the Bachelor's Degree

*Bachelor of Arts in Government.*—An associate in Arts degree based on curriculum E-1,\* E-11,\* or E-111,\* in the Junior College, or the equivalent, and a quality-point index of 2.25 for the first two years' work is required.

#### For the Master's Degree

*Master of Arts in Government.*—A Bachelor's degree from an accredited institution, or evidence of a course of study that is judged by the Faculty to be the equivalent is required. A student from an unaccredited institution may be admitted at the discretion of the Dean's Council, but he will be required to take such extra work above the minimum requirements as may be prescribed.

The Dean may permit deficiencies to be made up concurrently with work for the degree or by special examinations given under direction of a Faculty Committee. Students admitted to candidacy must have attained a quality-point index of 3.00 (a "B" average) in the courses of their undergraduate major. In special cases students who have not attained this scholastic average may take a qualifying examination with permission of the Dean.

### THE DIVISION OF UNIVERSITY STUDENTS

This is a non degree-granting division of the University to which students not seeking degrees at this University may apply.

\* See curricula on page 59.

The student who is twenty-one years of age or over and who has not attended another institution within the year preceding his application to this University may seek to qualify either by submitting satisfactory credentials or by passing, satisfactorily, a college aptitude test arranged by the University.

The student twenty-one years of age or over who has attended another institution within the year preceding application to this University must submit a satisfactory transcript of record from the institution last attended.

The student under twenty-one years of age must submit complete and satisfactory credentials.

In special instances, with the permission of the instructor, a person may be registered as an "auditor" in a class without being required to take active part in the exercises or to pass examinations, but no credit will be allowed for such attendance.

#### THE DIVISION OF SPECIAL STUDENTS

This is a non degree-granting division of the University in which the Director of Admissions may authorize the placement of students in the process of making up entrance deficiencies to degree-granting colleges and schools of the University.

Complete credentials must be submitted and evaluated before a tentative or definite plan of make-up may be prepared.

#### CLASSIFICATION OF STUDENTS

##### REGULAR STUDENTS

Regular students are those who have met the entrance requirements for candidacy and are registered for certificates or degrees.

##### UNIVERSITY STUDENTS

Persons of mature age, as specified in the rules of the Division of University Students, may be admitted to this Division to pursue courses for which they have had adequate preparation. In special instances, with the permission of the instructor, a person may register as an auditor in a class without being required to take active part in the exercises or to pass examinations, but no credit will be allowed for such attendance. (See the announcement of the Division of University Students.)

##### SPECIAL STUDENTS

Special students are those who are in the process of qualifying for admission to curricula in degree-granting colleges and schools of this University.

**EXTENSION STUDENTS**

Persons unable to come to the University who wish to undertake University courses and persons who wish to take intensive courses, not a part of the regular program, may be admitted to the Division of Extension. (See the announcement of the Division of Extension.)

Additional information concerning curricula, courses offered, entrance requirements, or admission procedure may be obtained from the Office of the Director of Admissions.



## REGISTRATION

Before a student may be admitted to registration he must have satisfied the Office of the Director of Admissions that he is qualified for entrance to the University. (See "Admission", pages 10-19.)

A student who has previously matriculated in the University, but who has not been in attendance during the term prior to registration, should file an application for readmission in advance of registration.

Registration is for the term unless otherwise indicated on the registration paper. No registration is accepted for less than a term or one summer session.

A student may not register concurrently in The George Washington University and another institution without the permission of the dean of the college, school, or division in which he is registered in The George Washington University. Allowance of credit for work done concurrently will be at the discretion of the appropriate Committee on Admission and Advanced Standing.

### TIME AND PLACE OF REGISTRATION

Registration is conducted between 12:00 M. and 7:00 P.M. during the following periods: *fall term*, September 25 for new students, September 26, 27, and 28 for former students; *winter term*, January 28 for new students, January 29 and 30 for former students. Registration, except for the Law School, is conducted in the Hall of Government, 710 Twenty-first Street NW.; for the Law School, in Stockton Hall, 720 Twentieth Street NW.

### LATE REGISTRATION

For registration after the stated registration periods, a late-registration fee of \$5 is charged. Registration for credit closes one week after the final registration day for the fall and winter terms.

### REGISTRATION CHANGES AND WITHDRAWALS

For regulations governing changes in registrations and withdrawals, see pages 23, 37, and 38.



## FEES AND FINANCIAL REGULATIONS

By authorization of the Board of Trustees, the following fees have been adopted effective September 2, 1946:

### UNIVERSITY FEE (see explanation below)

For each term or any part thereof.....	\$8.00
For each session of the summer term or any part thereof*.....	4.00
For auditors,† for each registration.....	2.00
For extension students‡.....	5.00

### TUITION FEES

For each credit hour for which the student registers (except work taken by a candidate for a Doctor's degree)§.....	10.00
For the degree of Doctor of Medicine, for two terms  .....	534.00
For the degree of Doctor of Philosophy:	
For work leading to and including the Council Fellowship examination¶.....	300.00
For work leading to and including the final examinations¶.....	300.00
For the degree of Doctor of Education:	
For work leading to and including the general examination¶.....	300.00
For work leading to and including the final examinations¶.....	300.00
For the degree of Doctor of Juridical Science:	
For work leading to and including the final examinations¶.....	300.00

### ADDITIONAL COURSE FEES AND DEPOSITS

In certain courses additional fees and deposits, such as laboratory and material fees and breakage deposits, are charged as indicated in the course descriptions. These fees are charged by the term and, unless otherwise indicated, may be delayed in three payments when the tuition is paid in this manner. Fees and deposits payable in advance are due in full at the time of registration. Breakage of apparatus is charged against the individual student, and the amount paid in excess of breakage will be credited to the student's account at the end of the course.

### GRADUATION FEES

Wherein the degree of Associate in Arts is granted.....	\$10.00
Wherein a degree other than the Associate in Arts degree is granted.....	20.00

### FEE FOR BINDING MASTER'S THESIS..... 3.00

\* Students registered for only those courses which extend over a single term of fifteen weeks must pay a University fee of \$8.

† Payment of this fee entitles auditors and extension students to the reference use of the University Library facilities, upon identification by the registration card, but it does not entitle auditors or extension students to the other privileges to which payment of the preceding fees entitles resident students.

‡ Payment of tuition for the thesis entitles the candidate, during the academic year of registration, to the advice and direction of the member of the faculty under whom the thesis is to be written. In case a thesis is unfinished, an additional successive academic year may be granted without further tuition payment. If the preparation of the thesis extends beyond the second academic year, it must be registered for again, and tuition paid on the same basis as for a repeated course.

§ Registration in the School of Medicine is for a period of two terms. After the student has entered the course of instruction he is obligated for the full tuition for two terms. No part of the tuition will be refunded upon withdrawal or dismissal for any cause.

|| When a limited schedule is carried which extends the time of either the preparation period or the examination period to more than one year, the proportionate part of the charge may be fixed by the Comptroller.

<b>FEE FOR THE PROFESSIONAL THESIS IN THE SCHOOL OF ENGINEERING....</b>	<b>50.00</b>
An annual fee; one half, plus the University fee, payable in advance at the time of each registration.	
<b>FEE FOR PRINTING AND FILING SUMMARY OF DOCTORAL THESIS.....</b>	<b>50.00</b>
<b>SPECIAL FEES</b>	
Late-registration fee, charged each student who fails to register within the designated period.....	5.00
Service fee, charged each student for late payment of tuition (see "Payment of Fees").....	1.00
Reinstatement fee, charged each student who is reinstated after suspension for delinquency in fees.....	5.00
For special physical examination.....	2.00
For examining admission credentials in the School of Medicine....	3.00
Student Bar Association fee, charged each student in the Law School for each term or any part thereof except the summer term.....	2.00
For examinations to qualify for advanced courses and for all special examinations .....	5.00

**UNIVERSITY FEE**

Payment of the University fee covers all expenses incident to registration and, in addition, secures to each student the following University privileges: (1) the issuance of three certified transcripts of record, if and when desired; (2) the services of the Placement Office; (3) the use of University library facilities, except as otherwise designated; (4) gymnasium privileges; (5) admission to all athletic contests, unless otherwise specified; (6) subscription to the *University Hatchet*, the student newspaper; (7) admission to University debates; (8) medical attention and hospital services as described under the Department of Health Administration. These privileges, however, with the exception of the issuance of transcripts, terminate, and a student is no longer in residence, when he withdraws or is dismissed from the University.

**PAYMENT OF FEES**

All fees are payable at the Office of the Cashier, 725 Twenty-first Street NW. No student is permitted to complete registration or to attend classes until all fees are paid. Fees for each term are due and payable in advance at the time of registration.

In exceptional cases, subject to the approval of the Comptroller, the student may sign a contract for term charges, except for the University fee and other fees payable in advance, permitting payments as follows:

*Fall Term.*—One third at the time of registration, plus the University fee and deposits; one third on November 4; one third on December 3.

*Winter Term.*—One third at the time of registration, plus the University fee and deposits; one third on March 3; one third on April 3.

A student who fails to meet payments when due, but who pays his fees on or before the tenth day of the month in which payment is due, is

charged a service fee of \$1. A student who fails to meet payments by the tenth day of the month in which payment is due will be suspended and may not attend classes until he has been officially reinstated and has paid all accrued fees and a reinstatement fee of \$5.

A suspended student may not be reinstated for the term after two weeks from the date of suspension. Applications for reinstatement are to be made to the dean of the college, school, or division in which the student is registered.

An auditor pays a University fee of \$2 and all other fees chargeable to the student registered for credit except the late-registration fee.

#### WITHDRAWALS AND REFUNDS

Application for withdrawal from the University or for change in class schedule must be made in person or in writing to the dean of the college, school, or division in which the student is registered. Notification to an instructor is not an acceptable notice (see "Withdrawal", pages 36 and 37).

In authorized withdrawals and changes in schedules, financial adjustments will be made as follows:

*Fall Term.*—Withdrawal dated on or before October 31, cancellation of the second and third payments; withdrawal dated on or before November 30, cancellation of the third payment. No refund or reduction will be allowed on a withdrawal dated subsequent to November 30.

*Winter Term.*—Withdrawal dated on or before February 28, cancellation of the second and third payments; withdrawal dated on or before March 31, cancellation of the third payment. No refund or reduction will be allowed on a withdrawal dated subsequent to March 31.

In no case will the University fee or any part of an initial payment of fees be refunded, and in no case will tuition be reduced or refunded because of nonattendance upon classes.

Payment applies only to the term for which a registration charge is incurred and in no case will this payment be credited to another term.

A student granted "war leave" during a term will be credited with tuition payments made prior to the granting of such leave, which credit will be applicable toward a subsequent registration.

Any student in chemistry who fails to check out of the laboratory on or before the date set by the instructor, unless excused by the instructor, will forfeit the balance of his deposit. A student who drops a course before the end of the term must check out of the laboratory at once.

Authorization to withdraw and certification for work done will not be given a student who has not a clear financial record.



## FELLOWSHIPS, SCHOLARSHIPS, PRIZES, LOANS

### FELLOWSHIPS

The following fellowships are available to graduate students. Applications should be submitted for consideration not later than March 1 preceding the period for which the fellowship is to be awarded.

The applicant for a University Teaching Fellowship or a Special Fellowship is expected to be a prospective candidate for the degree of Doctor of Philosophy, and to have the Master of Arts degree, or the equivalent, in the general field of his future doctoral study and research. Forms on which to make application for these fellowships may be obtained from the Chairman of the Graduate Council.

*University Teaching Fellowships.*—These are assigned for the academic year 1946-47 in the following departments of instruction: Bacteriology, Biochemistry, Botany, Chemistry, Economics, English, History, Physics, Psychology, Romance Languages, and Statistics. Each fellow receives a stipend of \$600, plus full tuition in the Graduate Council for whatever schedule of study or research his fellowship duties permit him to carry. The occupant of each of these fellowships renders a designated unit of service to the department of instruction in his major field of doctoral study, usually in classroom or laboratory assignments.

*Special Fellowships.*—A number of special fellowships are supported by endowment, and are awarded to doctoral students of unusual promise and ability. The stipend is not fixed but varies in amount with the need of the individual receiving the award. In applying for one of these fellowships it is advantageous that the student appear personally for an interview with the Chairman and such other members of the graduate Council as would be interested in the research investigations proposed. These fellowships include the following:

*Isabella King Research Fellowship.*—Of the value of \$1,200 annually, offered in the general field of biology, and intended to foster research for which the libraries and scientific establishments in Washington provide special facilities.

*Thomas Bradford Sanders Fellowships.*—Established by Miss Addie Sanders in memory of her brother, Thomas Bradford Sanders, and offered in various academic fields of study, with stipends designated by the Chairman of the Graduate Council.

### SCHOLARSHIPS

Scholarships are awarded for two terms unless otherwise specified and are credited in equal parts for each term. Each holder must carry a

full schedule of academic work (fifteen credit hours or in the professional schools the full prescribed schedule) during the period for which the scholarship is awarded. Except in the case of the Columbian Women's Scholarships, the High School Scholarships, the Order of the Eastern Star Scholarship, and the Trustee Scholarships, applicants must have established an academic record in courses at this institution and should apply on prescribed forms which must be filed in the Office of the Registrar not later than May 1 preceding the academic year for which the scholarship is to be awarded. Further information may be obtained from the Registrar of the University.

*American Foundation for Pharmaceutical Education.*—These two scholarships, established by the American Foundation for Pharmaceutical Education in the amount of two hundred dollars (\$200) each, are awarded on recommendation of the Faculty of the School of Pharmacy to competent and promising applicants in need of support to pursue the professional collegiate study of pharmacy.

*Byron Andrews Scholarships.*—Three scholarships, in the amount of \$100 each, established in 1920 by Mrs. Belle Fisk Andrews in memory of her husband, Byron Andrews, are available "for ambitious and needy students, who desire to pursue courses in English, Latin, journalism, history, literature, or political science".

*Emma K. Carr Scholarships.*—Four scholarships in the amount of \$300 each and twelve in the amount of \$100 each, established in 1932 by Mrs. Emma K. Carr, are awarded annually to "young men (of the white race) for undergraduate or postgraduate work, considering character, capacity, and need".

*Henry Harding Carter Scholarships.*—These three scholarships, established in 1896 by Mrs. Maria M. Carter in memory of her husband, Henry Harding Carter, are of the annual value of \$50 each and may be awarded to deserving students who are preparing for the civil-engineering profession.

*Maria M. Carter Scholarship.*—This scholarship, in the amount of \$30 to be awarded annually to a young man, was given to the University in 1871 by Mrs. Maria M. Carter.

*Isaac Davis Scholarship.*—This scholarship, in the amount of \$30 to be awarded annually, was given to the University in October 1869 by the Honorable Isaac Davis, of Massachusetts. Nominations for the scholarship may be made "by the founder or his eldest lineal descendant". In case no such nomination is made, the scholarship is to be awarded by the University.

*Charles Worthington Dorsey Memorial Scholarship.*—This scholarship, established as a memorial to Charles Worthington Dorsey, Bachelor of Laws, '81, Master of Laws, '82, is awarded upon the recommendation of the Faculty of the Law School to a needy and promising graduate of

Columbian College or other division of the University, with a Bachelor of Arts or other equivalent degree, who has maintained an average of B as an undergraduate student and who desires to pursue the study of law as a full-time student. The scholarship covers tuition for the course leading to the first degree from the Law School, Bachelor of Laws or Juris Doctor, provided that the holder maintains an average of B. The right is reserved to suspend the benefits of the scholarship for cause at any time. The scholarship is awarded ordinarily once every three years.

*Robert Farnham Scholarship.*—This scholarship, in the amount of \$30 to be awarded annually to a student in Columbian College, was given to the University in 1871 by Mrs. Robert Farnham.

*Elma Lewis Harvey Scholarship.*—This scholarship, of the annual value of \$200, was founded in 1921 by Mrs. Emma Elizabeth Harvey in memory of her daughter, and is to be awarded every four years, or as often as vacant, to a young woman student in Columbian College of the Protestant faith and of the Caucasian race who shall be selected for scholarship and moral qualifications.

*High School Scholarships.*—Two University scholarships for study in the liberal arts, one for a man student, the other for a woman, are assigned for award to each of the following schools: Anacostia, Central, Coolidge, Eastern, McKinley, Roosevelt, Western, and Woodrow Wilson High Schools (District of Columbia); Bethesda-Chevy Chase High School (Maryland); Washington-Lee and George Washington High Schools (Virginia). The *Amos Kendall Scholarship*, established by the late Honorable Amos Kendall, is one of the two assigned to the Central High School. Each of the above scholarships is awarded annually, on the recommendation of a committee consisting of the Dean of the Junior College of The George Washington University, the principal of the high school concerned, and an alumnus of both the high school and the University, to a member of the graduating class who intends to enter the Junior College and to continue in Columbian College. A principal and an alternate may be recommended.

The holders of these scholarships are exempt from tuition fees, but are charged the University fee, laboratory, graduation, and other fees. The scholarships are valid for eight terms. Beginning with the summer of 1942 the University expanded its program to permit a student to accomplish, during the summer, the work of a full term. As long as this accelerated program is in force, the high school scholarships may be used during the summer which becomes a part of the regular academic year. In any case they must be used for no less than two terms during a calendar year. The principal, or, if the principal declines, the alternate, must register in either June or September following the award.

To retain any high school scholarship a student must carry a full program of study in the liberal arts (a full program being defined as at



least fifteen hours of work each term), unless otherwise determined in individual cases by the Committee on Student Loans and Scholarships upon recommendation of the dean of the college concerned. An average of *B* and a high standard of deportment must be maintained. After registering, the holder of a high school scholarship is expected to complete four academic years in the University. If he fails to continue its use, the scholarship will not be reassigned.

*A. Morehouse Scholarship.*—This scholarship was established by Mr. A. Morehouse, in 1861. It carries an annual stipend of \$45, which is available for an undergraduate "intending to enter the Christian ministry".

*Newspaper Scholarships.*—Four scholarships are to be awarded each year to candidates recommended by the following newspapers: *The Washington Daily News*, *The Washington Post*, *The Evening Star*, and *The Times-Herald*. These scholarships cover tuition for four years, but do not include the University fee, laboratory fees, graduation fee, or other special fees.

*Order of the Eastern Star Scholarship.*—This scholarship in the amount of \$125 was established by the Order of the Eastern Star of the District of Columbia and is to be awarded to a woman of the order or to a daughter of a member in good standing.

*Paul Pearson Scholarship.*—This scholarship, established in 1940 by bequest of Paul Pearson and "to be known as the Dr. Paul Pearson award", is in the amount of \$85 to be awarded annually to a student in the School of Pharmacy.

*David Spencer Scholarship.*—This scholarship of approximately \$240 was established in 1918 by Miss Louisa J. Spencer.

*Mary Lowell Stone Scholarship.*—This memorial scholarship, established in 1893 is in the amount of \$60, to be awarded annually to a woman student of science in Columbian College.

*Charles Clinton Swisher Scholarship.*—This scholarship, established in 1941 by the late Professor Charles Clinton Swisher, is in the amount of \$300 and is awarded annually to a student of medieval history.

*Trustee Scholarships.*—Five scholarships are awarded each year, upon the recommendation of regional alumni clubs, to outstanding male graduates of accredited high schools. The scholarships cover tuition costs for four terms of full-time work but do not include the University fee, special fees such as laboratory charges, room, board, or other expenses. To retain the scholarship, the student must maintain a *B* average. Additional information may be obtained from the Alumni Secretary.

*William Walker Scholarship.*—This scholarship was established in 1824 by William Walker, Esq. It carries an annual stipend of \$75, which is available for an undergraduate intending to enter the Christian ministry.

*John Withington Scholarship.*—This scholarship was established in

1830 by the New York Baptist Theological Seminary. It has an annual stipend of \$60.

*Ellen Woodhull Scholarship.*—This scholarship, established by the late Ellen M. E. Woodhull, is in the amount of \$20, to be awarded annually to a student in Columbian College.

#### THE COLUMBIAN WOMEN SCHOLARSHIP FUNDS

The Columbian Women Scholarships are awarded by the Scholarship Committee of the Columbian Women. Applications for these scholarships should be addressed to the Chairman of the Scholarship Committee, the Columbian Women, The George Washington University, Washington 6, D.C., not later than May 15 preceding the academic year for which the scholarship is to be awarded; or, in the case of award for the winter term, not later than January 1.

*Nellie Maynard Knapp Scholarship Fund.*—The income from this fund of \$5,000, established in 1915 in memory of a former president, Mrs. Martin A. Knapp, is available for scholarships for women.

*Founders of Columbian Women Scholarship Fund.*—The income from this fund of \$5,000, established in 1920, is available for scholarships.

*Lillian Young Herron Scholarship Fund.*—The income from this fund of \$5,000, established in 1925 and named in 1930 in memory of a former president, is available for scholarships.

*Elizabeth V. Brown Scholarship Fund.*—This fund of \$1,200 was established in 1925 by the College Women's Club of Washington, D.C., in memory of the late Elizabeth V. Brown. The scholarship granted thereunder is available for a woman student in the School of Education.

*College Women's Scholarship Fund.*—The income from this fund of \$500, established in 1926 through the courtesy of the College Women's Club of Washington, D.C., is available for scholarship aid.

*Lewes D. and Myrtie H. Wilson Memorial Scholarship Fund.*—This fund of \$1,000 was established by Miss Elizabeth Wilson in 1926 as a memorial to her parents, Lewes D. and Myrtie H. Wilson. The income is available for a scholarship in the School of Medicine.

*Grace Ross Chamberlin Scholarship Fund.*—The income from this fund of \$2,300, established in 1932 in honor of a former president, is available for scholarship aid.

#### PRIZES

*Alpha Chi Sigma Prizes.*—Alpha Pi Chapter of Alpha Chi Sigma Fraternity offers annually the following prizes:

A "Handbook on Chemistry and Physics" is awarded to each of the three male students who carry at least eighteen credit hours during the freshman year and attain the highest averages in freshman chemistry.

The name and year of graduation of the male student who has attained the highest quality-point index in courses in chemistry will be inscribed on a bronze plaque.

*Alpha Delta Pi Prize.*—Alpha Pi Chapter of Alpha Delta Pi Fraternity offers an annual prize of \$10 to the student doing the best work in third-year French.

*Alpha Kappa Psi Prize.*—Beta Mu Chapter of Alpha Kappa Psi Fraternity awards annually a medallion to the male student who has completed ninety credit hours at The George Washington University and has attained the highest average grade of the students enrolled in economics, business administration, public accounting, public finance, and foreign commerce.

*American Institute of Chemists Prize.*—The District of Columbia Chapter of the American Institute of Chemists offers an annual prize of a medal and junior membership in the American Institute of Chemists to that graduating student, majoring in chemistry, who excels in scholarship and in the personal qualities of integrity and leadership.

*Byrne Thurtell Burns Memorial Prize.*—This prize, in the amount of \$30, is awarded to the senior majoring in chemistry who shows the greatest proficiency in organic chemistry, as evidenced by a comprehensive examination, and who possesses such qualifications of mind, character, and personality as to give promise of future achievement.

*Chi Omega Prize.*—Phi Alpha Chapter of Chi Omega Fraternity offers annually a prize of \$25 to be awarded to the woman student in the graduating class with the highest record in the following social sciences: economics, sociology, political science, and history; combined with general excellence.

*Colonial Dames Prize.*—The Society of the Colonial Dames of America, Chapter III, offers annually a medal to be awarded to the student who, having maintained a record of distinction in American history, submits the best essay upon a topic in Colonial history.

*John Henry Cowles Prizes.*—These prizes, founded in 1943 by John H. Cowles, Grand Commander of the Supreme Council of the Thirty-third Degree (Mother Council of the World) of the Ancient and Accepted Scottish Rite of Freemasonry, Southern Jurisdiction of the United States of America, are awarded annually to the two best scholars in the senior class of the School of Government. The prizes are as follows: first prize, \$60; second prize, \$30.

*George Howland Cox Prize.*—This prize, in the amount of \$25, is awarded annually to that student in American history whose essay on some assigned topic shall be deemed the best submitted.

*DeWitt Clinton Croissant Prize.*—This prize, established by the late Professor DeWitt Clinton Croissant, consists of \$30, which is awarded annually to the undergraduate student who as a member of one of the



University courses in drama or as a participant in University dramatic submits to the English Department the best essay on drama or the theatre.

*E. K. Cutter Prize.*—The E. K. Cutter Prize in English was established by the late Marion Kendall Cutter "for excellence in the study of English". An annual prize of \$35 is awarded to the member of the graduating class whose record in English, combined with general excellence, shows most marked aptitude for and attainment in English studies.

*Daughters of the American Revolution Prize.*—This prize, established by the Daughters of the American Revolution of the District of Columbia, consists of \$15, which is awarded annually to the student who, having maintained a record of distinction in American history, submits the best essay upon a topic in the period of the American Revolution.

*Isaac Davis Prizes.*—These prizes, established by the Honorable Isaac Davis, of Massachusetts, in 1847, are awarded annually to such members of the senior class as shall have made the greatest progress in public speaking during their connection with the University. The prizes are as follows: first prize, \$15; second prize, \$10; third prize, \$5.

The award of these three prizes is determined by a public-speaking contest in which the participants deliver original orations. Only members of the senior class who are candidates for the degree of Bachelor of Arts or Bachelor of Science are eligible to compete.

*William Thornwall Davis Prize.*—This prize, established by the late Dr. William Thornwall Davis and consisting of monographs dealing with the field of ophthalmology, is awarded annually to the student doing the most outstanding work in ophthalmology.

*Delta Sigma Rho Prizes.*—Two cups presented by Delta Sigma Rho are engraved each year, one with the name of the fraternity and the other with the name of the sorority whose team wins the Intramural Debate.

*Delta Zeta Prize.*—Delta Zeta Sorority offers annually a prize of \$10, to be awarded to the student maintaining the highest average in the first year's work in botany.

*Ellsworth Prize.*—The Ellsworth Prize of \$25, established by the late Mr. Fritz von Briesen, is awarded to the student doing the best work in the subject of Patent Law Practice.

*Elton Prize.*—The Elton Prize, established by the Reverend Romeo Elton, of Exeter, England, consists of \$10, awarded annually to the senior student having the highest average in the Greek language and literature.

*Joshua Evans III Prize in the Political and Social Sciences.*—This memorial prize in the amount of \$30, "established by friends because of an outstanding life", is awarded annually to that man in the graduating class of The George Washington University "who has demonstrated his

signal ability in the social and political sciences and who has given promise of the interpretation of that ability in good citizenship among his fellows". The selection of the recipient will be made by the President of the University and a committee from the Faculty of the Division of the Social Sciences.

*Willie E. Fitch Prize.*—The Willie E. Fitch Prize established in 1883 by James E. Fitch, Esq., in memory of his son, consists of \$40, which is awarded annually to a senior student for the best examination in chemistry.

*Alice Douglas Goddard Prize.*—This prize of \$35 was established in 1941 by Frederick Joseph Goddard of Georgetown, D.C., in memory of Alice Douglas Goddard, and is awarded annually to the upper division student making the highest average in American literature.

*Edward Carrington Goddard Prize.*—This prize, consisting of \$35, was established in 1923 by Mary Williamson Goddard, Alice Douglas Goddard, and Frederick Joseph Goddard, of Georgetown, D.C., in memory of Edward Carrington Goddard, class of '81, and is awarded to the junior or senior student making the highest average in the French language and literature.

*James Douglas Goddard Prize.*—This prize, consisting of \$35, was established in 1923 by Mary Williamson Goddard, Alice Douglas Goddard, and Frederick Joseph Goddard, of Georgetown, D.C., in memory of James Douglas Goddard, class of '01, and is awarded to the senior student making the highest average in pharmacy.

*Morgan Richardson Goddard Prize.*—This prize, consisting of \$35, was established in 1923 by Mary Williamson Goddard, Alice Douglas Goddard, and Frederick Joseph Goddard, of Georgetown, D.C., in memory of Morgan Richardson Goddard, and is awarded to the junior or senior student making the highest average in the following fields: economics, business administration, foreign commerce, and public accounting.

*The Gardiner G. Hubbard Memorial Prize in United States History.*—This prize of \$40 was established by Mrs. Gertrude M. Hubbard in memory of her husband, the late Gardiner G. Hubbard, and is awarded annually to that member of the graduating class majoring in history who has maintained the highest standing in courses in United States history.

*Kappa Kappa Gamma Prize.*—Kappa Kappa Gamma Sorority offers annually a prize of \$10 to the full-time freshman who achieves the best record in Botany 1 and 2.

*John Bell Lerner Prize.*—This prize, established by the bequest of John Bell Lerner, consists of a medal which is awarded annually to that member of the graduating class in the Law School who attains the

highest average grade in the entire course for the degree of Bachelor of Laws.

*Mortar Board Prize.*—This prize, consisting of a silver cup, is awarded annually to the woman student in the sophomore class having a scholarship average of *B* or higher and the most outstanding record in activities.

*Omicron Delta Kappa Prize.*—Alpha Delta Circle of Omicron Delta Kappa Fraternity offers annually a plaque to be awarded to "that member of the senior class (of Columbian College) who throughout his course has done the most constructive work in the furtherance and upbuilding of the University student activities".

*John Ordronaux Prizes.*—These prizes were established in 1909 by the bequest of John Ordronaux.

The amount of \$70 is awarded to the member of the graduating class in the School of Medicine who has the highest scholastic standing.

The amount of \$35 is awarded annually to the student in the Law School who has attained the highest average grade in the first-year, full-time, regular course; and \$35 to the student who has attained the highest average grade in the second-year, full-time, regular course.

*Phi Eta Sigma Prize.*—The George Washington University Chapter of Phi Eta Sigma offers each year to the male student attaining the highest scholastic average in his first full term of work, a choice book selected from the field of the recipient's major interest. The winner's name will be engraved on a plaque in the Office of the Dean of the Junior College.

*Phi Sigma Kappa Prize.*—Phi Sigma Kappa Fraternity offers annually a silver cup to the winner of an oratorical contest, open to all freshmen.

*Phi Sigma Sigma Prize.*—Kappa Chapter of Phi Sigma Sigma Fraternity offers annually a key, known as the Nileen Cooper Phi Sigma Sigma Award, which is given to the senior woman doing the most outstanding work in psychology.

*Pi Beta Phi Prize.*—A prize of \$20 is awarded annually by the District of Columbia Alpha Chapter of Pi Beta Phi Fraternity to that woman member of the senior class who throughout her college course has done the most constructive work in the promotion of student activities among the women of the University.

*Pi Lambda Theta Prize.*—Alpha Theta Chapter of Pi Lambda Theta Fraternity offers an annual prize of \$25 to the student who produces the most meritorious Master's thesis in education.

*Ruggles Prize.*—The Ruggles Prize, established by Professor William Ruggles in 1859, consists of \$15 awarded annually to a candidate for a baccalaureate degree for excellence in mathematics.

*Sigma Kappa Prize.*—Zeta Chapter of Sigma Kappa Sorority offers an annual prize of \$10 to the student who passes the best examination in General Chemistry.



*Sigma Tau Prize.*—Xi Chapter of Sigma Tau Fraternity offers annually a medal to be awarded to that member of the freshman class in the School of Engineering who maintains the highest scholastic standing in the work of the entire year.

*Staughton Prize.*—The Staughton Prize, established by the Reverend Romeo Elton, consists of \$10 awarded annually to the senior student making the best record in the Latin language and literature.

*James MacBride Sterrett, Jr., Prize.*—This prize, established in 1911 by Professor James MacBride Sterrett in memory of his son, consists of a medal awarded annually to that student who obtains the highest average in Physics 6, 7, and 8.

*Charles Clinton Swisher Historical Club Prize.*—This prize, established in 1936 by the Charles Clinton Swisher Historical Club and augmented in 1942 by the bequest of the late Professor Charles Clinton Swisher, is an annual prize of \$30 awarded to the student who submits the best essay covering some phase of medieval history.

*Theta Tau Activities Plaque.*—Gamma Beta Chapter of Theta Tau Fraternity offers annually a plaque to be awarded to that member of the senior class who has the most outstanding record in activities in the School of Engineering during the entire period of his attendance.

*Thomas F. Walsh Prize.*—This prize, established in 1901 by Thomas F. Walsh, consists of \$30 awarded annually to that student who submits the best essay in Irish history.

*Alexander Wilbourne Weddell Prize.*—From a fund established in 1923 by Mrs. Virginia Chase Weddell, an annual prize of \$150 is awarded to a candidate for a degree who writes the best essay on the subject of "the promotion of peace among the nations of the world". The prize essays shall become the property of the University and shall not be printed or published without the written consent of the University. The University reserves the right to withhold the award if no essay attaining the required degree of excellence is submitted.

#### LOAN FUNDS

The following loan funds are available to students in the University in accordance with the qualifications placed thereon by the donors. Inquiries should be directed to the Office of the Comptroller.

*University Student Loan Fund.*—The Trustees of The George Washington University have established a loan fund amounting to \$10,000.

*Daughters of the American Revolution Loan Fund.*—The District of Columbia Chapters of the Daughters of the American Revolution have established an endowment fund of \$5,000, the income (\$2,109.66) of which is available for interest-bearing loans to descendants of patriots of the American Revolution.

*Henry Strong Educational Foundation.*—The Henry Strong Educational Foundation, established at Chicago under the will of General Henry Strong, makes available a fund for loans to both men and women students under the age of twenty-five years.

*Henry Strong-William A. Maury Loan Fund.*—This fund, also allocated from the funds of the Henry Strong Educational Foundation, is to be loaned to students under the age of twenty-five years in the George Washington University Law School.

*Home Economics Loan Fund.*—This fund in the amount of \$188, contributed by the D. C. Home Economics Association, is available for loans to senior girls majoring in Home Economics.

*Kellogg Medical School Loan Fund.*—The W. K. Kellogg Foundation in Battle Creek, Michigan, has established a fund for loans to students in the School of Medicine.

*Kellogg Medical Technology Loan Fund.*—This fund, also contributed by the W. K. Kellogg Foundation, in the amount of \$2,000 is available for loans to medical technologists.

*Knights Templar Educational Loan Fund.*—This fund, contributed and administered by the Grand Commandery of Knights Templar of the District of Columbia, is available for loans to students, preferably in the upper classes, who are residents of the District of Columbia.

*Law Association Loan Fund.*—The George Washington Law Association has established a loan fund in the amount of \$668 for loans to students in the School of Law.

*Sutherland Medical School Loan Fund.*—This fund, in the amount of \$1,175 and established by Mrs. Rose L. Sutherland, is available for loans to students in the School of Medicine.

## REGULATIONS

A student enrolled in the University is required to conform to the University regulations and to comply with the rules and regulations of the college, school, or division in which he is registered.

If a student knowingly makes a false statement or conceals material information on an application for admission, registration card, or any other University document, his registration may be canceled and he will be ineligible (except by special action of the Faculty) for subsequent registration in any unit of the University.

### ATTENDANCE

A student is not permitted to attend classes until registration has been completed and fees due have been paid. Regular attendance is required. A student may be dropped from any course for undue absence. Tuition will not be refunded or reduced because of non-attendance.

A student who has been suspended, either for delinquency in payment of fees or for any other reason, is not permitted to attend classes during the period of suspension.

For further regulations regarding attendance, consult the announcements of the several colleges and schools.

### CONTINUOUS REGISTRATION

A student who withdraws or is suspended, or is otherwise absent from the University for one term or more, may re-enter and continue his work only under the rules and regulations in force at the time of his return. With the approval of the dean of the college or school concerned, a student may be granted leave of absence; such student should, however, remain technically in residence by paying the usual University fee for each term he is absent.

For the purpose of this regulation, the summer sessions will not be considered a term.

### SCHOLARSHIP REQUIREMENTS

A student who fails to maintain the scholarship requirements of the college, school, or division in which he is registered may be dismissed from the University.

### GRADES

Grades are not given out by instructors but are mailed to the student through the Office of the Registrar at the close of each term. Upon



request, a copy of the student's grades will be forwarded to his parents or guardian.

The following grading system is used: *A* (90-100 per cent), excellent; *B* (80-89 per cent), good; *C* (70-79 per cent), average; *D* (60-69 per cent), passing; *E*, conditioned, not passing; *F* (below 60 per cent), failing; *Inc.*, incomplete; *W*, withdrawn. *W* is followed by a letter grade indicating the quality of work the student was doing at the time of withdrawal. (See "Withdrawal", below.) A course failed must be repeated with a passing grade in order to be credited. No student may repeat for credit a course in which he has received a grade above *E*, without the permission of the faculty of the college, school, or division in which he is registered. A condition may be removed within one year on terms specified by the instructor, but in no case will a final grade above *D* be given unless the course is repeated in class. A grade of "incomplete" cannot be altered after the lapse of one calendar year except by action of the Faculty.

For graduate work, grades are indicated as "satisfactory", "unsatisfactory", or "incomplete".

For the grading systems of the Law School and the School of Medicine, see the explanations in the announcements of those schools.

#### QUALITY-POINT INDEX

Quality points are computed from grades as follows: *A*, four points; *B*, three points; *C*, two points; *D*, one point; *E* and *F*, no points, for each credit hour for which the student has registered.

Scholarship is computed in terms of the quality-point index, obtained by dividing the number of quality points by the number of credit hours for which the student has registered, both based on the complete collegiate record. Courses marked *W* or *Inc.* are not considered in determining the index.

#### EXAMINATIONS

Examinations are scheduled in all courses at the end of each term or at the completion of the course.

A student guilty of dishonesty in examinations may be deprived of credit for the courses in which dishonesty occurs and may be dismissed from the University.

For further regulations regarding examinations, consult the announcements of the several colleges, schools, and divisions.

#### WITHDRAWAL

A student who is obliged to withdraw from the University or from a course must immediately notify the dean of the college, school, or division in which he is registered.

Withdrawal from a course or from the University, *without academic or financial penalty*, requires the permission of the dean. Permission to withdraw from the University will not be granted a student who has not a clear financial record. (See "Fees and Financial Regulations", pages 21-23.)

Withdrawal between November 30 and the end of the fall term and between March 31 and the end of the winter term is permitted only in exceptional cases.

#### ACADEMIC AND FINANCIAL PENALTIES

*The grade of F (failing) will be given in a course dropped without the approval of the dean.*

*All charges for courses dropped without the approval of the dean must be met by the student. Reporting the dropping of a course to an instructor does not effect its discontinuance.*

#### CHANGES IN PROGRAM OF STUDIES

A student may not change or drop (see "Withdrawals", above) courses or change his status to that of auditor except with the approval of the dean of the college, school, or division in which he is registered, upon presentation of adequate reasons for such changes.

Change from one section to another of the same course or from one major subject to another within the same college or school may be made with the approval of the dean. All requirements specified in the course of study to which the change is made must be satisfied before graduation.

Transfer from one college, school, or division to another may be made only with the approval of the deans concerned. Applications for such change should be made on the proper form, obtainable in the Office of the Director of Admissions, where it should be filed.

#### CREDIT

Credit toward a degree is given only after regular registration for and satisfactory completion of the required work of classes in the University, or upon the granting of advanced standing in accordance with the regulations of the several colleges, schools, and divisions.

On request the Registrar will issue to the student a balance sheet showing the amount of work completed and the amount necessary to complete the requirements for a degree.

#### TRANSCRIPTS OF RECORD

Official transcripts of student records will be forwarded on request to other institutions. Unofficial copies of records will be issued to the student on request. No charge is made for the first three transcripts; a

fee of one dollar is charged for each one thereafter. No certificate of work done will be issued for a student who does not have a clear financial record.

#### SUMMER SCHOOL CREDIT

A student who plans to attend summer school sessions at another institution with the intention of having credits so obtained apply toward graduation from this University must first secure the written approval of the dean of his college or school. In no event will such credits be recognized to an amount in excess of that which might be earned in a similar period in this institution.

#### PHYSICAL EDUCATION REQUIREMENTS

Students in the Junior College and freshmen and sophomores in the School of Engineering are required to take Physical Education 1-2 and 11-12 unless they are registered for less than three courses, or unless regular employment during the day makes it necessary to take all classes during the late afternoon hours.

Any other exemptions will be granted only upon written application which has been recommended by the physical education department concerned and approved by the dean of the college or school in which the student is registered.

A student entering the University with advanced standing is not exempt from the physical education requirements unless he has satisfactorily met the requirements elsewhere. Courses in military training are not accepted in satisfaction of these requirements.

The required medical and physical examinations, as specified by the departments of physical education, will be arranged at the time of registration.

#### GRADUATION REQUIREMENTS

To be recommended for graduation a student must have met the admission requirements of the college or school in which he is registered, completed satisfactorily the scholarship, curriculum, residence, and other requirements for the degree for which he is registered, and be free from all indebtedness to the University.

*Application for Graduation.*—Applications for a degree should be filed in the Office of the Registrar at the time of registration for the first term of the senior or final year and may not be filed later than the date specified in the University calendar.

*Scholarship.*—In all undergraduate divisions of the University the scholarship requirement for graduation is a quality-point index of at least 2.00.



The graduate student must meet the scholarship requirements for the particular degree for which he is registered.

*Curriculum.*—Curriculum requirements for each degree are stated under the college or school offering work in preparation for the degree.

*Residence.*—In all undergraduate divisions of the University a minimum of one year, or thirty credit hours, must be completed in residence. Summer term work may be counted in residence, but in no case may the period of residence aggregate less than thirty weeks. Unless special permission is granted by the dean of the college or school concerned to pursue work elsewhere, the work of the senior or final year must be completed in residence.

The graduate student must meet the residence requirements for the particular degree for which he is registered.

*Attendance and Conduct.*—The University reserves the right to refuse to confer a degree upon a candidate whose attendance or conduct has been unsatisfactory.

*Thesis.*—A thesis submitted in partial satisfaction of requirements for the Master's degrees, the professional degrees in engineering, the degree of Doctor of Education, or the degree of Doctor of Philosophy must be presented in its final form to the dean of the college or school concerned not later than the date specified in the University calendar. Three\* copies of each thesis are required, one typewritten original and two legible and complete carbon copies. Detailed instructions for the styling of all theses should be obtained from the appropriate Dean.

Accepted theses, with accompanying drawings, become the property of the University and are deposited in the University Library, where the duplicate copies are bound and made available for circulation. Permission to publish or adapt material in the thesis must be secured from the appropriate faculty.

*Presence at Graduation.*—A candidate is required to be present at the graduation exercises unless written application for graduation in absentia is approved by the dean of his college or school.

#### HONORS

*With Distinction.*—In all undergraduate divisions of the University the degree may be conferred "with distinction", at the discretion of the Faculty, if a student attains a quality-point index of 3.50 or higher on all work taken at this institution except that taken during the term immediately preceding the granting of the degree. To be eligible for this honor a student must have completed at this institution at least one-half of the work required for the degree.

*Special Honors.*—Special honors may be awarded by the Faculty to any member of the graduating class for outstanding achievement in the

\* In the School of Education, four copies.

student's major field of work on recommendation of the major department, under the following regulations:

1. The student must have his candidacy for special honors approved by the faculty member representing the major department not later than the beginning of the senior year.
2. The student must meet such other conditions as the major department may set at the time his candidacy is approved.
3. No student will be awarded special honors unless he has a quality-point index of at least 3.00 on all work taken at this institution except that taken during the term immediately preceding the granting of the degree. To be eligible for this honor a student must have completed at this institution at least one-half of the work required for the degree.

#### THE LIBRARY

A student registered in the University is entitled to the reference use of the University Library. The Student Activities Book or the Registration Card, issued upon payment of the University fee, must be presented as identification.

Library books, with the exception of those in the Law and Medical collections, may be drawn for home use for a period of two weeks. Any book which does circulate is subject to recall by the Librarian at any time. Reserve books and periodicals for collateral reading must be used in the reading rooms when the Library is open. With special permission they may be drawn for overnight use when the Library closes. A fine of twenty-five cents will be charged for the first hour or fraction of an hour and five cents for each hour or fraction thereafter that a reserve book is overdue. Grades of a student will be withheld until his library record is clear.

#### HOURS

The University Library is open from 9:00 A.M. to 10:00 P.M. each class day (Saturday, 9:00 A.M. to 1:00 P.M.), and from 2:00 to 6:00 P.M. on Sunday.

The Law Library, in Stockton Hall, 720 Twentieth Street, is open from 9:00 A.M. to 10:00 P.M. each class day (Saturday, 9:00 A.M. to 1:00 P.M.), and from 2:00 to 6:00 P.M. on Sunday.

The Medical Library, at 1335 H Street, is open from 8:30 A.M. to 9:00 P.M. each class day (Saturday, 8:30 A.M. to 4:00 P.M.).

#### RIGHT TO DISMISS STUDENTS

The right is reserved by the University to dismiss or exclude any student from the University, or from any class or classes, whenever, in the

interest of the student or the University, the University Administration deems it advisable to do so.

#### RIGHT TO CHANGE RULES

The University and its various colleges, schools, and divisions reserve the right to modify or change requirements, rules, and fees. Such regulations shall go into force whenever the proper authorities may determine.



## STUDENT LIFE

### RELIGIOUS LIFE

The University recognizes the contribution that religion can make to the education of its students by encouraging them to participate in denominational clubs of their own choice. National Catholic, Hebrew, and Protestant bodies sponsor these religious organizations, which act as links between the University and the local churches. The Director of the University Chapel and the advisers to the various denominational organizations are available throughout the year for consultation on personal problems.

### UNIVERSITY CHAPEL

The University Chapel is maintained as a non-sectarian expression of the faith of the University in the contribution that religion can make to the education of its students. Twenty-minute services are held Friday of each week at 12:10 P.M. in the West Room of Columbian House. Lenten Vesper Services are conducted each Wednesday during Lent at 8:00 P.M. in the Upper Room of Columbian House. Representative clergymen of Washington are guest speakers at these non-denominational services.

### HEALTH ADMINISTRATION

The University maintains a staff of medical officers and a hospital. The University Physician for Women maintains an office in the University.

The payment of the University fee entitles the student to certain health services described under the Department of Health Administration.

### LIVING ACCOMMODATIONS

*Women Students.*—Women students under twenty-one years of age who carry twelve or more credit hours of academic work must have their residences approved by the Director of Activities for Women before their registrations can be completed.

Application for room reservations should be made well in advance. Forms for application, together with detailed information may be obtained from the Director of Activities for Women. The prices stated below are subject to change without notice.

The Hattie M. Strong Residence Hall: single rooms with breakfast and dinner are \$55 a month; double rooms with the same service are \$48 a month a person.

Staughton Residence Hall: single rooms are \$27 a month; double rooms are \$20 a month a person.

*Men Students.*—For information concerning dormitories for men, consult the Director of Activities for Men.

#### PLACEMENT OFFICE

The Placement Office, in Columbian House, is maintained to assist graduates in finding positions for which their college work has prepared them.

#### STUDENT EMPLOYMENT

In addition an employment service is operated to assist the self-supporting student in finding full- or part-time employment.

The prospective student who expects to earn any part of his expenses and who does not have a definite appointment to a position before coming to Washington should have the means of support for at least one term.

Many out-of-town students secure positions in the departments of the Government in Washington by taking the United States Civil Service examinations in their home states.

#### VOCATIONAL COUNSELING

The Washington Counseling Center, established by the University, is at 720 Twentieth Street NW. The Center offers educational and vocational counseling service, advice on social and personal problems, a psychometric service in tests and measurements, and the use of files of occupational information and training opportunities.

#### STUDENT ACTIVITIES

Control and direction of all student activities are vested in the committees on Extra-curricular Activities and Student Relationships.

#### ELIGIBILITY FOR STUDENT ACTIVITIES

Any student registered in The George Washington University who has a general average of not less than C (2.00) is eligible to participate in non-athletic student activities, subject to conditions specified by the local or national organizations, approved by the Student Life Committee.

The rules and policies of the Southern Conference govern participation in inter-collegiate athletics.

#### RECOGNITION OF STUDENT ORGANIZATIONS

No student club or society (except social fraternities, sororities, scholastic honor societies, religious or professional clubs or societies) organ-

ized as a branch or affiliate of a non-George Washington University organization will be recognized by the Committee on Student Life.

#### PROPERTY RESPONSIBILITY

The University is not responsible for the loss, in any University building, of personal property belonging to a student.

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For further information, catalogues, and application blanks, address the Director of Admissions.



THE COLLEGES, SCHOOLS, AND DIVISIONS



## THE JUNIOR COLLEGE

### THE FACULTY AND STAFF OF INSTRUCTION\*

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
 Myron Law Koenig, Ph.D., *Dean of the Junior College*  
 Katharine Rogers Adams, Ph.D., *Assistant Dean in the Junior College*  
 William Lewis Turner, A.M., *Assistant Dean in the Junior College*

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Thomas Benjamin Brown, Ph.D., *Professor of Physics*  
 Henry Grattan Doyle, A.M., *Professor of Romance Languages*  
 Robert Fiske Griggs, Ph.D., *Professor of Botany*  
 Norris Ingersoll Crandall, M.Arch., *Professor of Art*  
 Edward Henry Sehrt, Ph.D., *Professor of German*  
 Walter Lynn Cheney, Ph.D., *Professor of Physics*  
 Elmer Louis Kayser, Ph.D., *Professor of European History*  
 Donnell Brooks Young, Ph.D., *Professor of Zoology*  
 Warren Reed West, Ph.D., *Professor of Political Science*  
 Lowell Ragatz, Ph.D., *Professor of European History*  
 Francis Edgar Johnston, Ph.D., *Professor of Mathematics*  
 Benjamin Douglass Van Evera, Ph.D., *Professor of Chemistry*  
 Arthur Edward Burns, Ph.D., *Professor of Economics*  
 Merle Irving Protzman, Ph.D., *Professor of Romance Languages*  
 Ralph Dale Kennedy, Ph.D., *Professor of Accounting and Business Administration*  
 Florence Marie Mears, Ph.D., *Professor of Mathematics*  
 Wood Gray, Ph.D., *Professor of American History*  
 Thelma Hunt, Ph.D., M.D., *Professor of Psychology*  
 Harold Friend Harding, Ph.D., *Depew Professor of Speech*  
 Ira Bowers Hansen, Ph.D., *Professor of Zoology*  
 Paul William Bowman, Ph.D., *Professor of Biology*  
 Lawson Edwin Yocum, Ph.D., *Professor of Botany*  
 John Withrow Brewer, Ph.D., *Professor of International Law*  
 Frances Kirkpatrick, A.M., *Professor of Home Economics*  
 Louis Clark Keating, Ph.D., *Professor of Romance Languages*  
 William Henry Myers, A.M., *Professor of Physical Education for Men*  
 William Paul Briggs, M.S., *Adjunct Professor of Pharmacy*  
 Alan Thomas Deibert, A.M., *Associate Professor of Romance Languages*

\* The President of the University, the Dean and Assistant Deans of the College, the Registrar of the University, the Director of Admissions of the University, Professors, Adjunct Professors, Associate Professors, Assistant Professors, and Instructors constitute the Faculty.



Audley Lawrence Smith, Ph.D., *Associate Professor of English*  
 Donald Chenowith Kline, B.Arch., *Associate Professor of Art*  
 \*John Francis Latimer, Ph.D., *Associate Professor of Classical Languages and Literatures*

Samuel Nathaniel Wrenn, Ph.D., *Associate Professor of Chemistry*  
 Charles Rudolph Naeser, Ph.D., *Associate Professor of Chemistry*  
 Howard Maxwell Merriman, Ph.D., *Associate Professor of American Diplomatic History*

Ernest Sewall Shepard, A.M., *Associate Professor of English*  
 George Winchester Stone, Jr., Ph.D., *Associate Professor of English*  
 Helen Bennett Lawrence, A.M., *Associate Professor of Physical Education for Women*

Donald Stevenson Watson, Ph.D., *Associate Professor of Economics*  
 Irene Cornwell, Ph.D., *Associate Professor of French*  
 Kathryn Mildred Towne, A.M., *Associate Professor of Home Economics*  
 Antonio Alonso, A.M., *Associate Professor of Spanish*  
 Charles William Cole, Ph.D., *Associate Professor of American Literature*

Myron Law Koenig, Ph.D., *Associate Professor of American History*  
 Louis Otto Quam, Ph.D., *Associate Professor of Geography*  
 Henry Goddard Roberts, A.M., *Associate Professor of Speech*  
 Winfield DeWitt Bennett, A.M., LL.B., *Associate Professor of Speech*  
 Gretchen Louisa Rogers, Ph.D., *Associate Professor of German*  
 Wolfram Karl Legner, Ph.D., *Associate Professor of German*  
 Raymond Edgar Wilson, Ph.D., *Associate Professor of Physics*  
 Jenny Emsley Turnbull, A.M., *Assistant Professor of Physical Education for Women*

Dorothy Helene Veon, A.M., *Assistant Professor of Secretarial Studies*  
 Florence Everett Hooper, Ph.D., *Assistant Professor of Chemistry*  
 Edith Elizabeth Mortensen, Ph.D., *Assistant Professor of Zoology*  
 Elizabeth Burtner, A.M., *Assistant Professor of Physical Education for Women*

Elizabeth Fehrer, Ph.D., *Assistant Professor of Psychology*  
 Averett Howard, A.M., *Assistant Professor of English*  
 Virginia Loretta Dennis, A.B., *Assistant Professor of Physical Education for Women*

Charles Edward Gauss, Mus.B., Ph.D., *Assistant Professor of Philosophy*  
 Calvin Darlington Linton, Ph.D., *Assistant Professor of English*  
 Dorothy Jeanne Morrow, M.S., *Assistant Professor of Statistics*  
 Reuben Esselstyn Wood, Ph.D., *Assistant Professor of Chemistry*  
 Charles Norval Cofer, Ph.D., *Assistant Professor of Psychology*  
 Muriel Hope McClanahan, Ph.D., *Assistant Professor of English*  
 Calvin Weir Pettit, Ph.M., *Assistant Professor of Speech*

\* On war leave 1946-47.

Robert Corbin Vincent, Ph.D., *Assistant Professor of Chemistry*  
 Earl Larkin Williams, A.M., *Lecturer in Mathematics*  
 Peyton Armstrong Kerr, Ph.D., *Lecturer in Economics*  
 Katharine Rogers Adams, Ph.D., *Lecturer in English*  
 William Lewis Turner, A.M., *Lecturer in English*  
 Georgette Dupuy Caskie, L.-ès-L., *Instructor in Romance Languages*  
 Martin Steele Day, A.B., *Instructor in English*  
 Phyllis Annette Nichols, A.B., *Instructor in English*  
 Paul Charles Dunleavy, A.M., *Instructor in English*  
 James Harold Coberly, A.M., *Instructor in English*  
 Rex McLean Guest, Ph.D., *Instructor in Chemistry*

COMMITTEES\*

THE DEAN'S COUNCIL‡

1947

Francis Edgar Johnston  
 Florence Marie Mears

1948

Charles William Cole  
 Ralph Dale Kennedy

1949

Norris Ingersoll Crandall  
 Ira Bowers Hansen

COMMITTEE ON ADMISSION AND ADVANCED STANDING

Alan Thomas Deibert, *Chairman*  
 Elizabeth Fehrer  
 Charles Edward Gauss  
 Gretchen Louisa Rogers  
 Donnell Brooks Young  
 Averett Howard

COMMITTEE ON SCHOLARSHIP

Katharine Rogers Adams, *Chairman*  
 Wolfram Karl Legner  
 Calvin Darlington Linton  
 Kathryn Mildred Towne  
 Donald Stevenson Watson  
 Samuel Nathaniel Wrenn

JUNIOR COLLEGE ADVISORY STAFF

Myron Law Koenig, *Dean of the Junior College, Chairman*  
 Katharine Rogers Adams  
 William Lewis Turner

\* The President of the University and the Dean of the Junior College are members ex officio of all committees.  
 ‡ Elected by the Faculty.

**ADVISERS FOR BACHELOR OF ARTS AND BACHELOR OF SCIENCE CURRICULA**

Antonio Alonso, Walter Lynn Cheney, Charles William Cole, Florence Everett Hooper, Francis Edgar Johnston, Edith Elizabeth Mortensen, Gretchen Louisa Rogers, Lawson Edwin Yocum.

**ADVISERS FOR PREPROFESSIONAL CURRICULA**

Charles Edward Bish (Education), William Henry Myers (Physical Education for Men), Helen Bennett Lawrence (Physical Education for Women), Kathryn Mildred Towne (Home Economics), Samuel Nathaniel Wrenn (Medicine), William Paul Briggs (Pharmacy).

**GENERAL INFORMATION****INTRODUCTORY**

The Junior College, which comprises the first two years of the standard four-year college program in the liberal arts and sciences, was established in 1930 as a part of the academic reorganization of the University. Prior to 1930, the four-year program had been administered by Columbian College since its organization in 1821.

The Junior College curricula continue the studies of a general cultural nature begun in the secondary schools, and lay a foundation for the more specialized work which is to follow. Emphasis is accordingly laid (1) upon the social, cultural, biological, and physical background of civilization (history, political science, physical and biological sciences, literature, etc.) and (2) upon the discipline necessary to the effective prosecution of more advanced work (English rhetoric and composition, foreign languages, mathematics, etc.).

The Junior College also provides the preprofessional work required for admission to the schools of Law, Pharmacy, Education, and Government, and the first two years of the preprofessional work required by the School of Medicine.

In addition it provides two-year curricula in vocational training, leading to the degree of Associate in Arts.

**ADVISORY SYSTEM**

In order that students may have opportunities for assistance in planning their courses and also for obtaining personal, educational, and vocational advice in every phase of their academic work during the first two years, a number of members of the Faculty serve as advisers to Junior College students.

Members of the Faculty, selected for their knowledge of Junior College requirements and student programs, advise students in making up their



programs of study for each term. A separate staff of experienced advisers under the chairmanship of the Dean assists those students who find it difficult to make adjustments to college life because of scholastic or other reasons. Students who are "warned" or who are on probation may be required to consult these advisers at regular intervals. Students are encouraged to consult any members of the Advisory Staff or their instructors about college problems at any time.

Copies of notices of "warning" or probation will be sent to the parents or guardians of students on request, and the Dean and members of the Advisory Staff are available for consultation with parents or guardians concerning student problems.

#### REGULATIONS

*Students in the Junior College are subject to, and are expected to familiarize themselves with, the regulations regarding ADMISSION, REGISTRATION, FEES AND FINANCES stated on pages 10-23, and the University regulations stated on pages 35-41.*

#### SCHOLASTIC-APTITUDE TESTS

Students admitted to the Junior College may be required to take the scholastic-aptitude tests of the University.

#### ENGLISH PLACEMENT EXAMINATIONS

Special placement examinations, required of all entering freshmen, will be conducted by the English Department. Students registered in English 1 are tested in the minimum essentials of standard usage, vocabulary, writing skill, and reading speed and comprehension. Those students who show marked superiority may be exempted from one or both terms of the course; those who are inadequately prepared for the course will be assigned to English 0.

#### FIRST- AND SECOND-GROUP COURSES

A Junior College student may not take second-group courses (courses numbered 101-200) without the written permission of the instructor and of the Dean of the Junior College. A student will not be permitted to postpone a first-group course, required under the curriculum for which he is registered, in order to take a second-group course for elective credit. The principle that first-group courses must be taken in the Junior College years, and advanced courses in Columbian College and the professional schools, will be rigidly adhered to in approving student programs. No student on probation is permitted to take second-group courses except by the express permission of the Committee on Scholarship.

#### AMOUNT OF WORK

Fifteen or sixteen credit hours, not including required physical education, constitute normal work. A student not on probation may be permitted by the Dean to take seventeen credit hours.

A student having a quality-point index of 3.50 may, with the permission of the Dean, take eighteen or nineteen credit hours. No student may take more than nineteen credit hours, except with the permission of the Committee on Scholarship.

For an employed student working more than twenty-four hours a week, nine credit hours, not including required physical education, constitute normal work. An employed student not on probation may be permitted by the Dean to take ten credit hours. An employed student having a quality-point index of 3.50 may be permitted by the Dean to take twelve or thirteen credit hours.

A student previously unemployed who accepts employment subsequent to registration or at any time during a term is required to report that fact immediately to the Dean, to bring his program within the limitations set by the Faculty for the amount of work to be carried by an employed student.

#### ATTENDANCE

The student is held responsible to the instructor in charge of the course for which he is registered for all the work of the course, and all absences must be excused before provision will be made for him to make up the work missed.

With the exceptions noted below, occasional absences, not to exceed in number for each term the credit hours for the term, will be automatically excused. (If a course has distinct divisions such as lectures, laboratories, recitations, etc., these excuses apply pro rata to such separate divisions.) In the application of this rule absences immediately preceding or following holiday periods are to be counted double.

Such automatic excuses are intended to cover the occasional minor exigencies and not to constitute an indiscriminate privilege. A student on probation is allowed no automatic excuses.

Excuses for absences from two or more consecutive class periods, and for absences from examinations which have been announced in advance, can be obtained only by making written application to the Dean of the Junior College. All other absences may be excused by the instructor in charge.

A student whose absences from any class, whether excused or unexcused, are in excess of one-fourth of the total number of class periods will receive the grade of *F* for the course, except by special ruling of the Dean on recommendation of the instructor in the course.

### CLASSIFICATION OF STUDENTS

A student who has satisfactorily completed at least thirty-two credit hours of work, including eighteen credit hours in his curriculum requirements, is classed as a *sophomore*.

### THE DEGREE OF ASSOCIATE IN ARTS

Upon the satisfactory completion of the requirements of the Junior College, the degree of Associate in Arts is conferred.

### REQUIREMENTS FOR THE DEGREE

#### SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 35 and 36.

In order to receive the degree of Associate in Arts a student must have a quality-point index of at least 2.00.

*Honor Roll.*—The name of every student who has a quality-point index of 3.50 or higher will be placed on the honor roll and published. No consideration is given to those who have completed a total of less than fifteen credit hours. A place on the honor roll does not necessarily mean that the student will receive honors upon graduation.

*Probation.*—A student must maintain a quality-point index of at least 2.00, or be placed on probation. The case of each student who has a quality-point index between 1.50 and 2.00, however, will be considered by the Committee on Scholarship, which may retain or remove the probation. A student remains on probation as long as his quality-point index is below 2.00, or until his probation is removed by the Committee.

*Suspension.*—A student who has a quality-point index below 1.50 will be suspended. The case of each student who has a quality-point index between 1.35 and 1.50, however, will be considered by the Committee on Scholarship, which may retain him on probation or suspend him.

A student who is placed on probation for the third term, whether successive or after an interval, will be suspended.

For the purpose of these rules, the summer sessions are considered a term.

A student suspended for poor scholarship may apply for readmission after an interval of a calendar year. He must then submit evidence to the Committee on Scholarship that during his absence from the University he has so conducted himself as to indicate that he will profit by readmission. A student suspended twice for poor scholarship will not be readmitted.



The foregoing scholarship rules are applied to a student with a limited schedule only when he has undertaken a minimum of fifteen credit hours.

*Warnings.*—At stated intervals during the academic year instructors file in the Office of the Registrar the names of those students who are doing work of *D* grade or lower. A "warning" will then be transmitted to the student concerned and a copy filed with Junior College adviser. A warning constitutes notice to the student that he must consult an adviser within one week of his receipt of the warning. "Warning periods" are established as follows: fall and winter terms—seventh to eighth week; summer term—each session, third to fourth week.

#### CURRICULUM REQUIREMENTS

The satisfactory completion of sixty credit hours of college work, exclusive of physical education, is required as outlined in one of the Junior College curricula described below.

Except for students registered for the combined degrees of Bachelor of Arts and Doctor of Medicine, or Bachelor of Arts and Bachelor of Laws, not more than twelve credit hours of professional courses may be included in the one hundred and twenty credit hours required for the Bachelor's degrees in Columbian College. Junior College students electing professional courses under this rule must obtain the approval of the Dean of the Junior College.

#### Physical Education Requirements

Physical education is required of all students in the freshman and sophomore years. (See "Physical Education Requirements", page 38.)

#### Foreign-Language Requirements

For the degree of Associate in Arts a student must have completed satisfactorily the equivalent of two years of college work in a single foreign language.

A student offering for admission four acceptable high school units of a single foreign language, or the equivalent, is not required to take any foreign language. If he offers three units, he must complete the second term of the second-year college course in the same language. If he offers two units, he must complete the entire second-year college course in the same language (except in the Pre-Pharmacy Curriculum, where he may substitute another language or elective). If he offers one unit, he must complete the second term of the first-year college course and the entire second-year course in the same language. A student who offers irregular or inadequate preparatory work in a given language, or who has permitted a year or more to elapse since the completion of the second high school unit, must consult the executive officer of the department in question for assignment to proper courses. On written recommendation of

the proper executive officer, and with the approval of the Dean of the Junior College, a student may repeat for credit a language course taken in high school.

In some instances foreign languages are required or recommended as a preparation for advanced work in Columbian College and the professional schools. The student should consult his adviser as to these requirements, so that appropriate foreign languages may be included, when necessary, in his Junior College program.

*Curricula for Admission to Columbian College and the Professional Schools.*—Each of the following curricula comprises the first two years of a standard four-year college course and prepares the student for upper division work. Requirements for graduation from the Junior College may not be the same as the requirements for admission to Columbian College or a professional school. Therefore, the student should consult the specific admission requirements of the college or school for which he is preparing.

The first two years of the premedical college work are undertaken in the Junior College in accordance with curriculum B. Each premedical program must be approved by the premedical adviser.

#### Curricula for admission to:

##### I. Columbian College:

###### A-I—Arts and Letters\*

The following two-year curriculum prepares for the Bachelor of Arts program in Columbian College:

	Credit Hours
English .....	English 1-2 ..... 6
	English 51-52, 71-72, 91-92, Art 11-12, 71-72, or Philosophy 1-2..... 6
Foreign Language....	See page 54 for foreign language requirement... 12
Social Studies .....	Economics 1-2, History 39-40, Political Science 9-10, or Sociology 27, 28..... 6
Science .....	Biology 1-2, Botany 1-2, Chemistry 11-12 (12-21), Physics 5, 7 (6, 7) (5, 6), or Zo- ology 1-2 .....6 or 8
Physical Education..	See page 38 for statement of requirement.
Elective .....	22 to 24
Total.....	60 or 62

###### A-II—Sciences ‡

The following two-year curriculum prepares for the Bachelor of Science curriculum in Columbian College:

\* Not more than four term courses may be taken in any one department. Not more than eight term courses may be taken in any one of the groups of subjects listed above.  
 ‡ For the degree of Bachelor of Science, the student should obtain the advice of the major departments as to proper prerequisite and collateral courses for the intended major. Students who have had high school courses in chemistry, mathematics, and physics should consult the description of the beginning courses in these fields.

	Credit Hours
English .....	English 1-2 .....
	English 51-52, 71-72, 91-92, Art 11-12, 71-72, or Philosophy 1-2 (Elective if 6 hours of Social Studies are taken—see below).....
Foreign Language.....	French or German or non-science elective.....
	NOTE.—A reading knowledge of French or German is required. This may be satisfied by French 6 or German 6 or by special exam- ination.
Social Studies .....	Economics 1-2, History 39-40, 71-72, Political Science 9-10, or Sociology 27, 28 (Elective if 6 hours in the English, Art, Philosophy group are taken—see above) .....
Science .....	(a) Biology 1-2, Botany 1-2, Geology 21-22, Zoology 1-2 (b) Chemistry 11-12 (12-21), Mathematics 6, 12 (12, 19), Physics 5, 7 (6, 7) (5, 6)...24 to 28 (No more than three courses from either group a or b.)
Physical Education..	See page 38 for statement of requirement.
Elective .....	.....2 to 12
Total.....	60 to 64

## 2. The School of Medicine:

## B—Medicine

The following two-year curriculum satisfies the premedical requirements of the American Medical Association. However, the University recommends a Bachelor's degree or at least three years' study in the liberal arts and sciences in preparation for medical training.\*

	Credit Hours
English .....	English 1-2 .....
Foreign Language.....	See page 54 for foreign language requirement....
Science .....	Chemistry 11-12 (12-21), 151-52.....
	Physics 5, 6, 7 (6, 7, 8).....
	Zoology 1-2 (Botany 1-2 and Zoology 1).....
Physical Education..	See page 38 for statement of requirement.
Elective (to be se- lected from) .....	Chemistry 21, 22; Economics 1-2, History 39-40 (71-72), or Political Science 9-10; Mathe- matics 6; Psychology 1; Zoology 141-42....
	History or Political Science (Freshman year)..
Total.....	60 or 62

\* Beginning September 1947, premedical college requirements must total ninety credit hours, exclusive of Physical Education.



## 3. The Law School:

Curriculum A-I (see page 55) or E-I (see page 59) prepares for the Bachelor of Laws curriculum in the Law School.

## 4. School of Pharmacy:

## C—Pharmacy

The following two-year curriculum prepares for the Bachelor of Science in Pharmacy curriculum in the School of Pharmacy:

	Credit Hours
English ..... English 1-2 .....	6
Foreign Language... See page 54 for foreign language requirement...	6
Science ..... Botany 1, Chemistry 11, 12, and Physics 5 (Freshman year) .....	14
Chemistry 151-52, Zoology 1-2 (Sophomore year) .....	16
Physical Education... See page 38 for statement of requirement.	
Curriculum Electives. Pharmacy 1-2 (Freshman year).....	4
Pharmacy 21-22, 23-24 (Sophomore year)....	14
Total.....	60

## 5. School of Education:

## D-I—Education

The following two-year curriculum prepares for the Bachelor of Arts in Education curriculum in the School of Education:

	Credit Hours
English ..... English 1-2 .....	6
English 51-52, 71-72, or 91-92.....	6
Speech I or II .....	3
Foreign Language ... See page 54 for foreign language requirement...	12
Social Studies ..... History 71-72 .....	6
Economics 1-2; Geography 121-22; History 39- 40; Political Science 9-10; or Sociology 27, 28 (Those offering for admission two or more acceptable senior high school units in the Social Studies may be exempted from this requirement.) .....	6
Science and Mathe- Biology 1-2; Botany 1-2; Chemistry 11-12; matics ..... Geology 1-2; Physics 5 and 6 or 7; Zoology 1-2; or Mathematics 3 and 6 or 6 and 12...6 or 8	
Other courses ..... Psychology 1 and 22 .....	6
Statistics 51 .....	3
Physical Education... See page 38 for statement of requirement.	
Electives .....	4 to 6
Total.....	60

## D-II—Home Economics:

The following two-year curriculum prepares for the Bachelor of Science in Home Economics curriculum in the School of Education:

	Credit Hours	
English .....	English 1-2 .....	6
	English 51-52, 71-72, 91-92; or Speech 1-2....	6
Foreign Language....	See page 54 for foreign language requirement...	12
Social Studies .....	Economics, History, or Political Science.....	6
Science .....	Chemistry 11-12 (Sophomore year).....	8
Physical Education..	See page 38 for statement of requirement.	
Curriculum Electives..	Home Economics 1, 22 (Freshman year).....	6
	Home Economics 51, 62 (Sophomore year)....	6
Academic Electives..	(Freshman year) .....	6
	(Sophomore year) .....	4
Total.....		60

## D-III—Physical Education for Men

The following two-year curriculum prepares for the Bachelor of Science in Physical Education curriculum in the School of Education:

tion:		Credit Hours
English .....	English 1-2 .....	6
Social Studies .....	History or Political Science (Freshman year).. Economics, History, or Political Science (Sophom- ore year) .....	6 6
Science .....	Biology 1-2 or Zoology 1-2 (Freshman year) .....	6
Physical Education .....	See page 38 for statement of requirement.	
Curriculum Electives .....	Physical Education 42, 43-44, 47; Psychology 1, 22 (Freshman year) .....	14
	Physical Education 45-46, 49, 58; Spanish 1 (Sophomore year) .....	12
Elective .....	To satisfy minimum required credits (Sophom- ore year) .....	
Total:		
	(Freshman year) .....	32 or 34
	(Sophomore year) .....	28

## D-IV—Physical Education for Women

The following two-year curriculum prepares for the Bachelor of Science in Physical Education curriculum in the School of Education:

		Credit Hours
English .....	English 1-2 .....	6
	English 51-52, 71-72, or 91-92.....	6
Social Studies .....	History or Political Science.....	6
Science .....	Zoology 1-2 .....	8
Physical Education..	See page 38 for statement of requirement.	
Curriculum Electives..	Physical Education 13-14 (Freshman year)...	4
	Physical Education 15-16, 18, 49; Psychology 1, 22 (Sophomore year).....	16
Academic Electives..	(Each year) .....	6
Total.....		60

## 6. School of Government:

## E-I—Accounting and Business Administration

The following two-year curriculum prepares for the Bachelor of Arts in Government curricula in Accounting and in Business Administration in the School of Government:

	Credit Hours
English ..... English 1-2 .....	6
Foreign Language.... See page 54 for foreign language requirement...	12
Social Studies ..... Economics 1-2; History 39-40 or 71-72; Political Science 9-10.....	18
Statistics ..... Statistics 51, 52 .....	6
Physical Education... See page 38 for statement of requirement.	
Elective .....	18
Total.....	60

## E-II—Foreign Affairs

The following two-year curriculum prepares for the Bachelor of Arts in Government curriculum in Foreign Affairs in the School of Government:

	Credit Hours
English ..... English 1-2 .....	6
Foreign Language.... See page 52 for foreign language requirement...	12
Social Studies ..... Economics 1-2, History 39-40, 71-72, Political Science 9-10 .....	24
Mathematics, Science, Botany, Chemistry, Mathematics, or Physics, Statistics, or Zoology.....	6 or 8
Physical Education .. See page 38 for statement of requirement.	
Elective ..... (To satisfy minimum required credits)	
Total.....	60 or 62

## E-III—Statistics

The following two-year curriculum prepares for the Bachelor of Arts in Government curriculum in Statistics in the School of Government:

	Credit Hours
English ..... English 1-2 .....	6
Foreign Language.... See page 54 for foreign language requirement...	12
Social Studies ..... Economics 1-2, Philosophy 1-2.....	12
Mathematics ..... Mathematics 20 and prerequisites.....	3 to 12
Physical Education... See page 38 for statement of requirement.	
Elective .....	18 to 27
Total.....	60

*Vocational Curricula.*—In addition to the above curricula, all of which prepare for admission to upper division colleges and schools, the Junior College offers the following two-year terminal courses.



## F—Secretarial Studies Curriculum\*:

FIRST YEAR	Credit Hours	SECOND YEAR	Credit Hours
Business Administration 51-52....	6	Economics 1-2.....	6
English 1-2.....	6	Physical Education	
Physical Education		Secretarial Studies 15 and 16....	6
Secretarial Studies 1 and 2.....	4	Secretarial Studies 51-52.....	6
Secretarial Studies 11 and 12....	8	Secretarial Studies 54.....	3
Electives .....	6	Speech 1 .....	3
		Electives.....	6
Total.....	30	Total.....	30

## G—Accounting Curriculum:

The required work may be completed in two years on a full-time basis or in three years on a part-time basis, with the approval of the adviser.

REQUIRED COURSES	Credit Hours
Business Administration 51-52....	6
Business Administration 101, 102	6
Business Administration 115.....	3
Business Administration 145.....	3
Business Administration 151-52..	6
Business Administration 155.....	3
Business Administration 165 ...	3
Economics 1-2.....	6
Economics 121.....	3
English 1-2.....	6
Political Science 127.....	3
Political Science 128.....	3
Physical Education	
See page 38 for statement of requirement	
Electives.....	9
(To be selected with the approval of the adviser.)	
Total.....	60

## Examinations for Waiving Curriculum Requirements‡

A student desiring to omit a required course may take such examination as the department prescribes, and, on passing satisfactorily, he may be relieved of the curriculum requirements in that subject and may qualify for registration in an advanced course. Passing of this examination does not entitle the student to any hours of credit toward the degree.

\* The Junior College curriculum in Secretarial Studies comprises the first two years of a four-year curriculum leading to the degree of Bachelor of Science in Secretarial Administration (see special bulletin). Students with advanced standing in secretarial studies may substitute electives approved by the Faculty adviser. One year of science and two years of a foreign language (see foreign-language requirements, pages 54 and 55) are required for the degree of Bachelor of Science in Secretarial Administration.

‡ This provision does not apply to the premedical student, all of whose required premedical work must be taken in a recognized college of arts and sciences.

A student desiring to take such examinations should make written request of the Dean and pay the required fee at the Office of the Comptroller before the date of the examination specified in the University calendar.

### **Honors**

The degree of Associate in Arts may be conferred "with distinction" upon the student who has a quality-point index of 3.50 or higher.

## COLUMBIAN COLLEGE

### THE FACULTY AND STAFF OF INSTRUCTION\*

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
 Henry Grattan Doyle, A.M., *Dean of Columbian College*

---

Thomas Benjamin Brown, Ph.D., *Professor of Physics*  
 Henry Grattan Doyle, A.M., *Professor of Romance Languages*  
 Robert Fiske Griggs, Ph.D., *Professor of Botany*  
 John Donaldson, Ph.D., *Professor of Political Economy*  
 Norris Ingersoll Crandall, M.Arch., *Professor of Art*  
 Colin Mackenzie Mackall, Ph.D., *Professor of Chemistry*  
 Edward Henry Sehart, Ph.D., *Professor of German*  
 Robert Whitney Bolwell, Ph.D., *Professor of American Literature*  
 Walter Lynn Cheney, Ph.D., *Professor of Physics*  
 James Henry Taylor, Ph.D., *Professor of Mathematics*  
 Elmer Louis Kayser, Ph.D., *Professor of European History*  
 Donnell Brooks Young, Ph.D., *Professor of Zoology*  
 Frank Mark Weida, Ph.D., *Professor of Statistics*  
 Warren Reed West, Ph.D., *Professor of Political Science*  
 Lowell Ragatz, Ph.D., *Professor of European History*  
 Francis Edgar Johnston, Ph.D., *Professor of Mathematics*  
 Benjamin Douglass Van Evera, Ph.D., *Professor of Chemistry*  
 ‡William Crane Johnstone, Jr., Ph.D., *Professor of Political Science*  
 Mitchell Dreese, Ph.D., *Professor of Educational Psychology*  
 Arthur Edward Burns, Ph.D., *Professor of Economics*  
 Merle Irving Protzman, Ph.D., *Professor of Romance Languages*  
 Alva Curtis Wilgus, Ph.D., *Professor of Hispanic American History*  
 Florence Marie Mears, Ph.D., *Professor of Mathematics*  
 Wood Gray, Ph.D., *Professor of American History*  
 Thelma Hunt, Ph.D., M.D., *Professor of Psychology*  
 Harold Friend Harding, Ph.D., *Depew Professor of Speech*  
 Ira Bowers Hansen, Ph.D., *Professor of Zoology*  
 John Albert Tillema, Ph.D., LL.M., S.J.D., *Professor of Political Science*  
 Paul William Bowman, Ph.D., *Professor of Biology*  
 Lawson Edwin Yocum, Ph.D., *Professor of Botany*  
 John Withrow Brewer, Ph.D., *Professor of International Law*  
 Louis Clark Keating, Ph.D., *Professor of Romance Languages*

\* The President of the University, the Dean of the College, the Registrar of the University, the Director of Admissions of the University, Professors, Adjunct Professors, Associate Professors, and Assistant Professors constitute the Faculty.

‡ On leave of absence 1946-47.



James Christopher Corliss, A.M., *Adjunct Professor of Inter-American Economics*

Alan Thomas Deibert, A.M., *Associate Professor of Romance Languages*

Audley Lawrence Smith, Ph.D., *Associate Professor of English*

Edward Campion Acheson, Ph.D., *Associate Professor of Finance*

Donald Chenoweth Kline, B.Arch., *Associate Professor of Art*

\*John Francis Latimer, Ph.D., *Associate Professor of Classical Languages and Literatures*

Samuel Nathaniel Wrenn, Ph.D., *Associate Professor of Chemistry*

Charles Rudolph Naeser, Ph.D., *Associate Professor of Chemistry*

Howard Maxwell Merriman, Ph.D., *Associate Professor of American*

#### *Diplomatic History*

Ernest Sewall Shepard, A.M., *Associate Professor of English*

George Winchester Stone, Jr., Ph.D., *Associate Professor of English*

Donald Stevenson Watson, Ph.D., *Associate Professor of Economics*

Fred Salisbury Tupper, Ph.D., *Associate Professor of English*

Antonio Alonso, A.M., *Associate Professor of Spanish*

Edwin Wallace Davis, Ph.D., *Associate Professor of Psychology*

Charles William Cole, Ph.D., *Associate Professor of American Literature*

Myron Law Koenig, Ph.D., *Associate Professor of American History*

Charles Louis Critchfield, Ph.D., *Associate Professor of Physics*

Louis Otto Quam, Ph.D., *Associate Professor of Geography*

David Hawkins, Ph.D., *Associate Professor of Philosophy*

Henry Goddard Roberts, A.M., *Associate Professor of Speech*

Gretchen Louisa Rogers, Ph.D., *Associate Professor of German*

Wolfram Karl Legner, Ph.D., *Associate Professor of German*

Raymond Edgar Wilson, Ph.D., *Associate Professor of Physics*

Edith Elizabeth Mortensen, Ph.D., *Assistant Professor of Zoology*

Elizabeth Fehrer, Ph.D., *Assistant Professor of Psychology*

Charles Edward Gauss, Mus.B., Ph.D., *Assistant Professor of Philosophy*

Reuben Esselstyn Wood, Ph.D., *Assistant Professor of Chemistry*

Howard Wissler Bond, Ph.D., *Lecturer in Chemistry*

#### COMMITTEES†

##### THE DEAN'S COUNCIL§

1947

Thomas Benjamin Brown

Ira Bowers Hansen

1948

Fred Salisbury Tupper

Donald Stevenson Watson

1949

Thelma Hunt

Ernest Sewall Shepard

\* On war leave 1946-47.

† The President of the University and the Dean of Columbian College are members ex officio of all committees.

§ Elected by the Faculty.

## COMMITTEE ON ADMISSION AND ADVANCED STANDING

Frank Mark Weida, *Chairman*  
 Ernest Sewall Shepard, *Secretary*  
 Charles Rudolph Naeser  
 Charles William Cole  
 Donald Stevenson Watson  
 Edith Elizabeth Mortensen

## COMMITTEE ON STUDIES

The Dean of the College, *Chairman*  
 Wolfram Karl Legner  
 (Languages and Literatures)  
 Frank Mark Weida  
 (Mathematics and Physical  
 Sciences)  
 Lawson Edwin Yocum  
 (Natural Sciences)  
 Alva Curtis Wilgus  
 (Social Sciences)

## COMMITTEE ON SCHOLARSHIP

Lawson Edwin Yocum, *Chairman*  
 Florence Marie Mears  
 Howard Maxwell Merriman  
 Louis Clark Keating  
 Fred Salisbury Tupper

## DIVISIONAL ORGANIZATIONS

## LANGUAGES AND LITERATURES

Edwin Henry Sehrt, *Chairman*  
 Audley Lawrence Smith, *Secretary*

## Educational Committee

Wolfram Karl Legner, *Chairman*  
 Merle Irving Protzman

## MATHEMATICS AND THE PHYSICAL SCIENCES

Francis Edgar Johnston, *Chairman*  
 Reuben Esselstyn Wood, *Secretary*

## Educational Committee

Frank Mark Weida, *Chairman*  
 Thomas Benjamin Brown  
 Samuel Nathaniel Wrenn

## NATURAL SCIENCES

Ira Bowers Hansen, *Chairman*  
 Edith Elizabeth Mortensen, *Secretary*

## Educational Committee

Lawson Edwin Yocum, *Chairman*

Chester Elwood Leese

Thelma Hunt

## SOCIAL SCIENCES

Donald Stevenson Watson, *Chairman*James Christopher Corliss, *Secretary*

## Educational Committee

Alva Curtis Wilgus, *Chairman*

Frank Mark Weida

## GENERAL INFORMATION

## INTRODUCTORY

Columbian College was founded in 1821. James Monroe, then President of the United States, aided in obtaining the charter from Congress which established "The Columbian College in the District of Columbia" for the "sole and exclusive purpose of educating youth in the English, learned and foreign languages, the liberal arts, sciences and literature", with full power to confer all degrees "usually granted and conferred in colleges".

In 1930, when the Junior College was established, the name "Columbian College" was bestowed upon the senior college of liberal arts.

## THE COLUMBIAN COLLEGE PROGRAM

In The George Washington University, the program for liberal arts and sciences extends from the general collegiate education of the Junior College (the freshman and sophomore years), through the instruction for the Bachelor's degrees of Columbian College (the junior and senior years), and the studies for the Master's degrees which are also in Columbian College, to the graduate discipline leading to the degree of Doctor of Philosophy, which is administered by the Graduate Council.

The purpose of Columbian College is to round out the program of liberal education begun in the Junior College and to bring to a focus educationally the individual talents and aptitudes of the student of liberal arts.

The program involves a comprehensive survey of a field of study, together with such knowledge of other fields as will contribute to the general educational development of the student. A field of study may be confined to one department or may involve a group of related courses in



more than one department, or more than one division. The following divisions have been established in The George Washington University based on the relationship of course content, interrelation of methods and prerequisites, and similarity of background and viewpoint:

1. *The Division of Languages and Literatures.*—The departments of Classical Languages and Literatures, English, Germanic Languages and Literatures, and Romance Languages and Literatures.
2. *The Division of Mathematics and the Physical Sciences.*—The departments of Biochemistry, Chemistry, Mathematics, Pharmacology, Physics, and Statistics.
3. *The Division of the Natural Sciences.*—The departments of Anatomy, Bacteriology, Biology, Botany, Geology, Neurology, Pathology, Physiology, Psychology, and Zoology.
4. *The Division of the Social Sciences.*—The departments of Business Administration, Economics, Education, History, Law, Philosophy, Political Science, Sociology, and Speech.

#### REGULATIONS

*Students in Columbian College are subject to, and are expected to familiarize themselves with, the regulations regarding ADMISSION, REGISTRATION, FEES AND FINANCES stated on pages 10-23, and the University regulations stated on pages 35-41.*

#### AMOUNT OF WORK

A full-time student who is not on probation may take ordinarily not more than seventeen credit hours. A student employed more than twenty-four hours a week, who is not on probation, may take not more than ten credit hours.

A full-time student whose quality-point index is 3.50 or higher may taken not more than nineteen credit hours. An employed student who meets the same standard may take not more than twelve credit hours.

A student previously unemployed who accepts employment subsequent to registration or at any time during a term is required to report that fact immediately to the Dean, in order that adjustments in schedule may be made, if necessary, to bring his program within the Faculty's limitations upon the amount of work to be carried by an employed student.

#### ATTENDANCE

The student is held responsible for all the work of the courses in which he is registered, and all absences must be excused by the instructor in charge before provision is made for the student to make up the work missed.

#### CLASSIFICATION OF STUDENTS

A student who has completed less than thirty credit hours in Columbian College, and who has registered his major at the Office of the Registrar, is classed as a *junior*. A student who has completed thirty credit hours in

Columbian College, including at least one course in his major, is classed as a *senior*. A student who has satisfactorily completed the work for the Bachelor's degree, and whose program of study has been approved and filed in the Office of the Registrar, is classed as a *master in course*.

#### INDEPENDENT STUDY PLAN

Under the independent study plan a student of demonstrated capacity, with special interest in the subject matter of a course, may be permitted to undertake independent study under the personal direction of an instructor, in accordance with the rules of the division in which the subject falls. Credit under this plan is limited to the specific course-credits as designated in the list of courses of instruction in the CATALOGUE.

#### CORRESPONDENCE AND HOME-STUDY COURSES

No credit is given for work done by correspondence or in home-study courses.

#### THE BACHELOR'S DEGREES

Upon the satisfactory completion of the undergraduate requirements of Columbian College, the degree of Bachelor of Arts or Bachelor of Science is conferred.

In cooperation with the School of Medicine a seven-year curriculum leading to the combined degrees of Bachelor of Arts and Doctor of Medicine is offered.

In cooperation with the Law School a six-year curriculum leading to the combined degrees of Bachelor of Arts and Bachelor of Laws is offered.

#### REQUIREMENTS FOR THE DEGREES

##### SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 35 and 36.

In order to graduate, a student must have a general quality-point index of at least 2.00. In addition, he must have a quality-point index of at least 2.50 in his major subject. Grades in courses taken at other institutions are not considered in computing the quality-point index.

In computing the quality-point index in the major, all second-group and third-group courses in the major field taken at The George Washington University are included, even though minimum requirements for the major may have been exceeded. Grades received in first-group courses are not considered.

*Probation.*—A student must maintain a quality-point index of at least 2.00, or be placed on probation. A student remains on probation as long as his quality-point index is below 2.00, or until his probation is removed by the Committee on Scholarship.

*Suspension.*—A student who has a quality-point index below 1.00 or who is placed on probation for a third term, whether successive or after an interval, is suspended.

A student suspended for poor scholarship may apply for readmission after an interval of a calendar year. He must then submit evidence to the Committee on Admission and Advanced Standing that during his absence from the University he has so conducted himself as to indicate that he will profit by readmission. A student suspended twice for poor scholarship will not be readmitted.

For the purpose of these rules, the summer sessions are considered a term.

The foregoing scholarship rules are applied to a student with a limited schedule only when he has undertaken a minimum of fifteen credit hours.

*Use of Correct English.*—Any student whose English in any course whatever is deemed unsatisfactory may be reported by the instructor to the Dean and to the Committee on the Use of English. The Chairman of the Committee may assign supplementary work, without academic credit, varying in amount with the needs of the student. If the work prescribed is equivalent to a course, the regular tuition fee is charged. The granting of a degree may be delayed for failure to make up any such deficiency in English to the satisfaction of the Committee and the Dean.

#### CURRICULUM REQUIREMENTS

Every candidate for graduation must satisfy curriculum A-I or A-II, listed below, leading to the degree of Bachelor of Arts or Bachelor of Science. The curriculum requirements include at least sixty credit hours beyond the requirements of the Junior College, and the satisfactory completion of the major (see "The Undergraduate Major", pages 70-72). At least twenty-four credit hours must be taken in subjects not included in the major.\*

Except for students registered for the combined degrees of Bachelor of Arts and Doctor of Medicine, or Bachelor of Arts and Bachelor of Laws, not more than twelve credit hours of professional courses may be included in the one hundred and twenty credit hours required for the

\* Art, Bacteriology, Biochemistry, Biology, Botany, Chemistry, Classical Languages and Literatures, Economics, English, Geography, Geology, Germanic Languages and Literatures, History, Mathematics, Philosophy, Physics, Physiology, Political Science, Psychology, Romance Languages and Literatures, Sociology, Speech, Statistics, Zoology.



Bachelor's degrees in Columbian College. Columbian College students electing professional courses under this rule must obtain the approval, in advance, of the Dean of Columbian College.

After selecting a curriculum, a student may not change to another except by permission of the Dean and on condition that he fulfill the requirements of the curriculum to which he changes as of the date when the change is approved by the Dean.

The freshman and sophomore years of each curriculum will be found in the announcement of the Junior College.

Each student is required to select and file with the Registrar a choice of major\* upon entering Columbian College. He may change the major only with the consent of the Dean and of the department or division concerned, and must meet the requirements for the major to which he changes as of the date when the change is approved by the Dean.

First-group courses may be required as prerequisites to undergraduate-major programs, but because of their introductory character may not be counted as part of such programs. (See "Explanation of Course Numbers".)

*Examinations for Waiving Curriculum Requirements.*—A student desiring to omit a required or prerequisite course may take such examination as the department prescribes, and, on passing satisfactorily, he may be relieved of the curriculum or prerequisite requirement in that subject and may qualify for registration in an advanced course. Passing of this examination shall not entitle him to any credit toward the degree. A student desiring to take such examinations should make written request of the Dean and pay the required fee at the Office of the Comptroller before the date of the examination specified in the University calendar.

#### Bachelor of Arts

A-1†. *Curriculum Leading to the Degree of Bachelor of Arts.*—The work of the junior and senior years, including a major, must be approved by the major department or division and by the Dean.

*Combined Degrees of Bachelor of Arts and Doctor of Medicine.*—A candidate for the combined degrees of Bachelor of Arts and Doctor of Medicine must: (1) complete the premedical college requirements (see page 14 and curriculum B on page 56); (2) fulfill the Columbian College residence requirement of at least thirty credit hours; (3) obtain the approval of the Dean of Columbian College at the time of entering the School of Medicine; (4) obtain the recommendation of the Dean of the School of Medicine at the completion of all prescribed courses in the first year of the School of Medicine, at which time the degree of Bachelor of Arts will be conferred (professional work taken at another

\* See pages 70-72 for a description of the undergraduate major.

† See page 55.

institution will not satisfy the major requirement for the combined degrees); (5) maintain throughout the entire course the scholarship level required for graduation.

*Combined Degrees of Bachelor of Arts and Bachelor of Laws.*—A candidate for the combined degrees of Bachelor of Arts and Bachelor of Laws must: (1) complete three years of satisfactory college work; (2) fulfill the Columbian College residence requirement of at least thirty credit hours; (3) obtain the approval of the Dean of Columbian College at the time of entering the Law School; (4) obtain the recommendation of the Dean of the Law School at the completion of the first year of the Law School, at which time the degree of Bachelor of Arts will be conferred (Professional work taken at another institution will not satisfy the major requirement for the combined degrees.); (5) maintain throughout the entire course the scholarship level required for graduation.

#### Bachelor of Science

A-II.\* *Curriculum Leading to the Degree of Bachelor of Science.*—The work of the junior and senior years, including a major in one of the sciences mentioned below, must be approved by the major department or division and by the Dean.

##### *Biological Sciences*

Biology  
Botany  
Geology  
Zoology

##### *Physical Sciences*

Chemistry  
Mathematics  
Physics

#### THE UNDERGRADUATE MAJOR ‡

There are two types of undergraduate majors: the field-of-study major; and the departmental major.

##### THE FIELD-OF-STUDY MAJOR

Each field-of-study major covers a carefully worked out field of coordinated study and is under the supervision of the division or divisions concerned. The content of the major is defined in terms of related subject matter, not in terms of courses and hours of credit. The passing of a written examination in the field of the major is evidence that the requirements for the major have been satisfied.

The following majors are offered: (1) American Thought and Civilization, (2) Biology, (3) English Literature, (4) French Literature, (5) Hispanic American Civilization and Culture, (6) Hispanic American

\* See pages 55 and 56.

‡ For a complete description of the undergraduate major, see the special bulletin.

Economics, (7) History, (8) International Relations, (9) Philosophy, (10) Spanish American Literature, (11) Spanish Literature, (12) Statistics, (13) Zoology.

Of the field-of-study majors offered, two, those in International Relations and in Biology, extend broadly over the work of their respective divisions; and two, those in American Thought and Civilization and in Hispanic American Civilization and Culture, involve studies in two divisions, those of Languages and Literatures and of Social Studies. The other majors, with the exception of the major in Spanish American Literature, replace departmental majors in their respective fields (English, French, History, Philosophy, Spanish, Statistics, and Zoology). A candidate for a major in one of these fields must elect a field-of-study major.

#### Proseminar in the Major

For the convenience of the student a proseminar is offered in each field of study, under the supervision of the division in which the major is taken. This course, planned and administered by the professor or adviser of the major subject, will advise, guide, and instruct the student in his reading, study, and laboratory exercises in order to assist him in gaining a coordinated knowledge of his field. It is a presentation of the content and methods of the major field as a whole through the organization and coordination of the knowledge obtained in the various formal courses in the major subject and of material not usually included in such courses. This course is not required. Six credit hours, but no qualitative grade, may be assigned. When registered in this course, the student will have the privilege of visiting any other course offered in the College. (Regular attendance in a course, either for credit or as an auditor, requires registration and payment of tuition.) Proseminars are open only to the student who has been accepted as a candidate under that specific major.

#### The Major Examination

The major examination will normally be taken by the student at the close of the senior year; in the case of the student on a limited schedule, the major examination may be taken not earlier than one calendar year before graduation. A student who fails to pass a major examination may, at the discretion of the Columbian College Committee on Studies, be re-examined at a later regular major-examination period. The educational committees of the respective divisions will have general supervision of the preparation, reading, and grading of major examinations. Major examinations will be held in each regular term on dates fixed by the respective educational committees, but in no case later than January 15 for the fall term, May 15 for the winter term, and August 7 for the summer term.



### DEPARTMENTAL MAJORS

Until further notice departmental majors will be offered in the following: Art, Botany, Chemistry, Classical Languages and Literatures, Economics, Geology, Germanic Languages and Literatures, Mathematics, Physics, Political Science, Psychology, Sociology, and Speech. The Department of History offers both a field-of-study and a departmental major.

Requirements for the major will be found under the courses of instruction of the department concerned immediately following the listing of the faculty of the department.

### THE MASTER'S DEGREES

Upon the satisfactory completion of the graduate requirements of Columbian College, the degree of Master of Arts or Master of Science is conferred.

#### DEFINITION OF THE MASTER'S WORK

The study leading to the degree of Master of Arts or Master of Science is a comprehensive survey of a field of knowledge. It is a continuation of the work of the student's undergraduate major and involves a greater acquaintance with scholarly method.

The student must satisfy certain minimum requirements as to previous preparation, residence, ability to read an approved modern foreign (European) language, and courses taken; but these requirements, while essential, are regarded primarily as qualifying measures. The student's knowledge of his field, as demonstrated by his thesis and by the results of his Master's examination (together with such other examinations involving special skills or techniques as the department or division may require), is the basis upon which the Master's degree is conferred.

#### REQUIREMENTS FOR THE DEGREES

##### RESIDENCE

An academic year of residence in Columbian College is required, i.e., completion of a minimum of thirty credit hours of work including the thesis, which is counted as the equivalent of six credit hours of course work. Summer term work may be counted in residence, but in no case may the period of residence aggregate less than twenty-seven weeks. Not more than twelve credit hours (which must be approved in advance by the Dean of Columbian College) may be taken in another school or division of this University, and such work may not be counted toward both a degree in that school or division and the Master's degree in Columbian College. No part of the minimum requirement may be taken

elsewhere. All work for the degree of Master of Arts or Master of Science must be completed within a maximum of three years, unless the Dean's Council considers the circumstances so unusual as to justify an extension of time.

#### SCHOLARSHIP

A student whose scholarship is unsatisfactory may be suspended by the Dean upon recommendation of the division under which the student is working. Regarding the system of grading, see pages 35 and 36.

#### PROGRAM OF STUDIES

The student's program of studies must be outlined in detail at the beginning of his work, in triplicate on forms available at the Office of the Dean. Each program is subject to the approval of the department and the division. The program may be revised as the occasion requires, but any change necessitates a repetition of the procedure just described.

Courses numbered from 1 to 100 may not be credited toward the Master's degrees, but may in certain instances be required as a basis for advanced work. (See "Explanation of Course Numbers".)

A student who expects to continue his studies for the degree of Doctor of Philosophy after receiving the Master's degree is strongly advised so to plan his program from the beginning that work for the lower degree may help to prepare him for the higher.

#### ADMISSION TO CANDIDACY

A student must be admitted to candidacy before he begins the last half of his work for the Master's degree. Application for admission to candidacy is made on a form obtained at the Office of the Registrar, and must be approved by the appropriate representative of the department or division and by the Dean. If a prospective candidate, in his previous academic work, has not substantially satisfied the prerequisites for the Master's degree, including the undergraduate major as defined by the appropriate department or division, he will not be admitted to candidacy until such deficiency has been made up. He may make up his deficiencies by electing appropriate courses in addition to those counted towards his degree.

Before being admitted to candidacy the student must also show that he has a reading knowledge (certified by the appropriate foreign-language department) of at least one modern foreign (European) language, selected by the division under which he is studying. A student whose field is a modern foreign language or literature may not offer that language in satisfaction of the reading-knowledge requirement. Examinations in modern foreign languages will ordinarily be given only on the dates specified in the University calendar. In exceptional circumstances the respective departments will arrange for examinations at other times.

### THE MASTER'S THESIS

The thesis may be of a research, expository, critical, or creative type. The main purpose of a Master's thesis is to demonstrate the student's ability to make independent use of the information and training acquired through his other disciplines, and to furnish objective evidence of his constructive powers in his chosen field. Registration for the thesis must be no later than the beginning of the final year of preparation, unless the professor in charge of the thesis permits registration at the beginning of the final term. The choice of the thesis subject must be approved by the professor in charge of the student's field and recorded in the Office of the Registrar by the date announced in the University calendar. Registration for the thesis is ordinarily made on the basis of three credit hours a term for two successive terms. In exceptional cases, and with the approval of the professor in charge of the thesis, the student may register for the entire six credit hours during a single term. The typewritten thesis in its final form must have the approval of the professor in charge of the student's field and of the educational committee of the division concerned, and must be presented to the Dean by the student not later than the date announced in the University calendar. Requirements regarding the form of the thesis are stated on page 39, and additional information will be supplied by the Dean.

Payment of tuition for the thesis entitles the candidate, during the academic year of registration, to the advice and direction of the member of the faculty under whom the thesis is to be written. In case a thesis is unfinished, an additional successive academic year may be granted without further tuition payment. If the preparation of the thesis extends beyond the two-year period the student must register for it again, and pay tuition on the same basis as for a repeated course.

### THE MASTER'S EXAMINATION

In addition to such other examinations as may be required, the candidate must pass a general written examination on the major subject. Examinations will be held on dates fixed by the respective educational committees, but in no case later than January 15 for the fall term, May 15 for the winter term, and August 7 for the summer term. The provisions of the field of study plan for undergraduate majors which concern the general examination for the major also apply to the Master's examination. A candidate who fails to pass the Master's examination may, in exceptional circumstances and with the specific approval of the division concerned, repeat the examination, but only after the lapse of one term. If he fails a second time, no further opportunity to take the examination will be permitted.



## THE GRADUATE COUNCIL

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
Robert Whitney Bolwell, Ph.D., *Chairman of the Graduate Council*

### MEMBERS OF THE COUNCIL

Thomas Benjamin Brown, Ph.D., *Professor of Physics*  
Charles Sager Collier, A.B., LL.B., S.J.D., *Professor of Law*  
Henry Grattan Doyle, A.M., *Professor of Romance Languages*  
Robert Fiske Griggs, Ph.D., *Professor of Botany*  
John Donaldson, Ph.D., *Professor of Political Economy*  
Joseph Hiram Roe, Ph.D., *Professor of Biochemistry*  
Colin Mackenzie Mackall, Ph.D., *Professor of Chemistry*  
Edward Henry Sehr, Ph.D., *Professor of German*  
Robert Whitney Bolwell, Ph.D., *Professor of American Literature*  
William Cullen French, Ph.D., *Professor of Education*  
James Henry Taylor, Ph.D., *Professor of Mathematics*  
Errett Cyril Albritton, A.B., M.D., *Professor of Physiology*  
Elmer Louis Kayser, Ph.D., *Professor of European History*  
Donnell Brooks Young, Ph.D., *Professor of Zoology*  
George Antony Gamow, Ph.D., *Professor of Theoretical Physics*  
Frank Mark Weida, Ph.D., *Professor of Statistics*  
Warren Reed West, Ph.D., *Professor of Political Science*  
Lowell Ragatz, Ph.D., *Professor of European History*  
Francis Edgar Johnston, Ph.D., *Professor of Mathematics*  
Benjamin Douglass Van Evera, Ph.D., *Professor of Chemistry*  
\*William Crane Johnstone, Jr., Ph.D., *Professor of Political Science*  
Mitchell Dreese, Ph.D., *Professor of Educational Psychology*  
Leland Wilbur Parr, Ph.D., *Professor of Bacteriology*  
Winfred Overholser, A.B., M.D., Sc.D., *Professor of Psychiatry*  
Saul Chesterfield Oppenheim, A.M., J.D., S.J.D., *Professor of Law*  
Arthur Edward Burns, Ph.D., *Professor of Economics*  
Alva Curtis Wilgus, Ph.D., *Professor of Hispanic American History*  
Wood Gray, Ph.D., *Professor of American History*  
Florence Marie Mears, Ph.D., *Professor of Mathematics*  
John Withrow Brewer, Ph.D., *Professor of International Law*  
Paul Kenneth Smith, Ph.D., *Professor of Pharmacology*  
William Webster Diehl, Ph.D., *Adjunct Professor of Mycology*  
Chester Elwood Leese, Ph.D., *Associate Professor of Physiology*  
Samuel Nathaniel Wrenn, Ph.D., *Associate Professor of Chemistry*  
Charles Rudolph Naeser, Ph.D., *Associate Professor of Chemistry*

\* On leave of absence 1946-47.

Howard Maxwell Merriman, Ph.D., *Associate Professor of American Diplomatic History*

George Winchester Stone, Jr., Ph.D., *Associate Professor of English*

Donald Stevenson Watson, Ph.D., *Associate Professor of Economics*

Fred Salisbury Tupper, Ph.D., *Associate Professor of English*

Angus MacIvor Griffin, Ph.D., *Associate Professor of Bacteriology*

Antonio Alonso, A.M., *Associate Professor of Spanish*

#### CONSULTANTS IN RESEARCH

Gerhard Colm, Dr. rer. pol., *Research Associate in Economics*

Paul Simon Galtsoff, Ph.D., *Research Associate in Invertebrate Zoology*

Raymond John Seeger, Ph.D., *Research Associate in Physics*

Willard Hull Wright, D.V.M., Ph.D., *Research Associate in Parasitology*

#### GENERAL INFORMATION

##### INTRODUCTORY

The Graduate Council, a reorganization of the Graduate School of Letters and Sciences which had heretofore administered the disciplines leading to the Master of Arts and Doctor of Philosophy degrees, was instituted in 1930. Since then the Graduate Council has offered a program of advanced study and research leading only to the degree of Doctor of Philosophy.

The purpose of the Graduate Council of The George Washington University is to create a Fellowship between the Masters in Research in the various fields and their students, and through this fellowship to foster a creative spirit in the graduate studies leading to the degree of Doctor of Philosophy. The basic conception of this degree is the attainment of a mastery of related fields of knowledge, achieved without regard to specific courses of instruction and culminating, through original research, in a contribution to knowledge.

##### APPLICATION TO UNDERTAKE DOCTORATE DISCIPLINES

A student wishing to undertake work under the Graduate Council must possess an adequate academic preparation for advanced study in the proposed field, as evidenced by satisfactory Bachelor's and Master's degrees, or the equivalent, together with acceptable personal qualities and capacity for creative work.

It is desirable that the applicant have a preliminary personal interview with the Chairman of the Graduate Council who will appoint a consultative committee (usually composed of five members), which will evaluate the records submitted and interview the applicant. The ap-

plicant will also meet the personnel committee of the Graduate Council. When the recommendations of the consultative and personnel committees have been presented, the Graduate Council will act upon the application for candidacy for Fellowship in the Graduate Council.

#### CANDIDACY FOR COUNCIL FELLOWSHIP EXAMINATION

If accepted, the candidate must demonstrate his ability to read both French and German, one of which must be presented at the time of admission, and he must satisfy all other prerequisites for advanced study specified by the consultative committee. The necessary examinations will be arranged by the Chairman of the Graduate Council.

The consultative committee will, after conference with the candidate, designate a program of study in the several fields of learning on which the candidate must stand examination as a part of the requirements for admission to Fellowship in the Graduate Council. Ordinarily courses of instruction are assigned by the consultative committee only to make up deficiencies.

The candidate will be directed by his consultative committee throughout the entire period of preparation for this Council Fellowship examination.

#### THE COUNCIL FELLOWSHIP EXAMINATION

Upon application of the consultative committee the Chairman of the Graduate Council will set a date for the Council Fellowship examination and appoint an examining committee, composed of the members of the consultative committee and at least two other members of the Graduate Council. The Council Fellowship examination will be a written examination, conducted during a period of one week. The candidate, in consultation with the Chairman of the Graduate Council, will have designated the Master with whom he wishes to undertake research if admitted as a Fellow. If he is successful in the Council Fellowship examination and is accepted by the Master, the candidate will be nominated to the Graduate Council for election as a Fellow.

#### FELLOWSHIP IN THE GRADUATE COUNCIL

When a student has been admitted as a Fellow of the Graduate Council, his consultative committee will be discharged and he will become responsible to his Master alone for the development of his field, the selection of a thesis subject, and the preparation of his thesis. He will be formally inducted into Fellowship, which carries with it the privilege of membership in the Graduate Council, including participation in its



general meetings, and unrestricted use of all the academic facilities of the University. The Master may refer the Fellow to other institutions for special study, under arrangements made by the Council.

#### THE THESIS

Not later than the date specified in the University calendar the Fellow must submit to the Chairman of the Graduate Council one typewritten original and two legible and complete carbon copies of his thesis (including a summary of from 2500 to 3500 words) in its final form. Requirements regarding the form of the thesis are stated on page 39, and additional information will be supplied by the Chairman.

An additional copy of the summary must also be submitted for publication in a volume forming an issue of the University BULLETIN. The successful candidate for the doctorate is required, before receiving his degree, to pay a fee to cover the expense of printing the summary of his thesis.

#### THE FINAL EXAMINATION

After the presentation of the Fellow's thesis, which must be accompanied by the written approval of the Master in Research, the Chairman of the Council, upon application of the Master, will set the date of the final examination and appoint the final examination committee. The examiners will include at least five members of the Graduate Council other than the Master, and at least two qualified experts in the Fellow's special field from other institutions of research. The Master will present the Fellow to the examining committee. In this final examination, which will be oral, the Fellow will defend his thesis in relation to the field of learning in which it lies. The examination will be public.

#### THE DEGREE OF DOCTOR OF PHILOSOPHY

If the Fellow satisfies this committee in respect to the high quality of his contribution to knowledge and his mastery of the field, he will be recommended by the committee to the Graduate Council and, if approved, nominated by the Council to the Board of Trustees of the University for the degree of Doctor of Philosophy.

#### TEACHING FELLOWSHIPS

Teaching fellowships are available in the departments of Bacteriology, Biochemistry, Botany, Chemistry, Economics, English, History, Physics, Psychology, Romance Languages, and Statistics. An announcement regarding qualifications and application for these fellowships will be sent upon request to the Chairman of the Graduate Council.

### REGULATIONS

*Candidates and Fellows in the Graduate Council are subject to, and are expected to familiarize themselves with, the regulations regarding ADMISSION, REGISTRATION, FEES AND FINANCES stated on pages 10-23, and the University regulations stated on pages 35-41.*

#### RESIDENCE AND CONTINUOUS REGISTRATION

The Graduate Council expects all students to work on their doctoral programs in residence, although there is no formal regulation concerning the amount of time of resident study either in preparation for the Council Fellowship examination or as a Fellow of the Council engaged in doctoral research. The student who undertakes either part of the doctoral program on full or limited schedule must, in accordance with University regulations, maintain continuous registration under the Graduate Council even when the Council has granted a leave of absence for study or residence elsewhere. Failure to maintain registration in each term of the academic year disrupts the residence status of the student under his consultative committee or his Master in Research. In such a case, the student must reapply for admission to the Council, under whatever new conditions and regulations are set up by his consultative committee or by his Master in Research.

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A pamphlet describing details of the Graduate Council program will be sent upon request to the Office of the Graduate Council.

## THE SCHOOL OF MEDICINE

### THE FACULTY

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*

Walter Andrew Bloedorn, A.M., M.D., *Dean of the School of Medicine*

Joseph Hiram Roe, Ph.D., *Professor of Biochemistry*

Walter Freeman, Ph.D., M.D., *Professor of Neurology*

Walter Andrew Bloedorn, A.M., M.D., *Professor of Medicine*

Errett Cyril Albritton, A.B., M.D., *Professor of Physiology*

Roger Morrison Choisser, B.S., M.D., *Professor of Pathology*

Winfred Overholser, A.B., M.D., Sc.D., *Professor of Psychiatry*

Leland Wilbur Parr, Ph.D., *Professor of Bacteriology*

Frederick August Reuter, M.D., *Professor of Urology*

Harry Ford Anderson, M.D., *Professor of Dermatology and Syphilology*

Daniel Bruce Moffett, A.B., M.D., *Professor of Oto-rhino-laryngology*

John Louis Parks, M.S., M.D., *Professor of Obstetrics and Gynecology*

Preston Alexander McLendon, B.S., M.D., *Professor of Pediatrics*

Ernest Alfred Watson Sheppard, M.D.C.M., *Professor of Ophthalmology*

Brian Brewer Blades, A.B., M.D., *Professor of Surgery*

Paul Kenneth Smith, Ph.D., *Professor of Pharmacology*

Radford Brown, M.D., *Clinical Professor of Obstetrics and Gynecology*

Thomas Carlton Thompson, B.S., M.D., *Clinical Professor of Urology*

Daniel LeRay Borden, A.M., M.D., *Clinical Professor of Surgery*

James Winston Watts, B.S., M.D., *Clinical Professor of Neurosurgery*

Chester Elwood Leese, Ph.D., *Associate Professor of Physiology*

Thomas Martin Peery, A.B., M.D., *Associate Professor of Pathology*

Angus MacIvor Griffin, Ph.D., *Associate Professor of Bacteriology*

Leo Gregor Schmelzer, *Superintendent of the University Hospital*

### COMMITTEES \*

#### THE DEAN'S COUNCIL

Winfred Overholser

Brian Brewer Blades

Joseph Hiram Roe

#### COMMITTEE ON ADMINISTRATION OF THE UNIVERSITY HOSPITAL AND DISPENSARY

Walter Andrew Bloedorn, *Chairman*

John Louis Parks

Brian Brewer Blades

Leo Gregor Schmelzer

\* The President of the University and the Dean of the School of Medicine are members ex officio of all committees.



COMMITTEE ON ADMISSIONS

Joseph Hiram Roe, *Chairman*  
Leland Wilbur Parr

COMMITTEE ON CURRICULUM

Thomas Martin Peery, *Chairman*  
Leland Wilbur Parr      John Louis Parks  
Harry Filmore Dowling

COMMITTEE ON GRADUATE STUDIES

Errett Cyril Albritton, *Chairman*  
John Louis Parks      Paul Kenneth Smith

COMMITTEE ON LIBRARY

Chester Elwood Leese, *Chairman*  
Thomas Martin Peery      Harry Ford Anderson

COMMITTEE ON RESEARCH

Roger Morrison Choisser, *Chairman*  
Angus MacIvor Griffin      Ira Rockwood Telford  
Brian Brewer Blades      Harry Filmore Dowling

COMMITTEE ON SCHOLARSHIP

Leland Wilbur Parr, *Chairman*  
Joseph Hiram Roe      John Louis Parks  
Chester Elwood Leese

HOSPITAL STAFF APPOINTMENTS

Members of the staff assigned to the University Hospital and Dispensary and those assigned to the Gallinger Hospital Service are listed in the bulletin of the School of Medicine.

GENERAL INFORMATION

INTRODUCTORY

The School of Medicine of The George Washington University was opened in March 1825; of the medical schools now in existence in the United States, it is the eleventh in chronological order of founding. The University Hospital and Dispensary were established in 1898 and made a part of the organization of the School.

The School is a member of the Association of American Medical Colleges and is one of the medical colleges which have been designated continuously as "class A" by the American Medical Association. The degrees of the School of Medicine are recognized by all state examining boards.

#### PLAN OF INSTRUCTION

Each year of the medical curriculum is divided into two terms of sixteen weeks each. The curriculum for the degree of Doctor of Medicine must begin with the fall term.

The salient features in the method of instruction are thorough laboratory training, demonstrations, and clinical teaching, with recitations and lectures to clarify the many problems presented. The clinical material in the various hospitals and out-patient departments is utilized to the fullest extent for both clinical instruction and laboratory work.

#### EQUIPMENT AND FACILITIES

*The George Washington University Hospital.*—With the aid of a grant from the Federal Works Administration in the amount of \$2,700,000.00, a new 400 bed hospital is being constructed. It will occupy the block bounded by 22d Street, 23d Street, I Street, and Washington Circle on Pennsylvania Avenue, Northwest. Its purpose is to supplement the existing hospital resources of the District of Columbia for the care of patients, the education of physicians and nurses, and the advancement of medical knowledge.

The new hospital will be staffed and controlled by the faculty of the George Washington University School of Medicine. Upon completion, it will provide excellent clinical material for the instruction of medical students. Virtually every specialty in the field of medicine and surgery will have especially assigned space and equipment in this splendid new institution.

The present hospital and dispensary are adjacent to the School of Medicine.

*Medical School Building.*—The building housing the School of Medicine is a five-story structure with lecture rooms and classrooms, laboratories, and students' rooms.

*Laboratories.*—A four-story laboratory building is adjacent to the main medical building. The major laboratories are for anatomy, histology and embryology, bacteriology, hygiene and preventive medicine, biochemistry, pathology, pharmacology and physiology, and clinical microscopy. They are fully equipped to enable students to pursue adequately the laboratory courses and to acquire the technical skill necessary in modern clinical and investigative work.

*Medical Library.*—The Library contains a selected reference collection of more than 5,000 volumes, and provision is made to add to it the important new medical works. The principal medical periodicals are received regularly.

#### GOVERNMENT LIBRARIES AND MUSEUMS

The Library of the Surgeon General's Office of the United States Army is the most complete general medical library in the world. In addition to its great collections of medical works, all leading medical periodicals of the world are available. This Library, as well as the Library of Congress, the Public Library, and the many excellent libraries of the various government departments, is available to students and teachers through a service maintained by the Medical School Library.

The Army Medical Museum affords opportunity for studying the conditions met in military and general medicine and surgery. Its collection of anatomical and pathological specimens is unequalled by any other museum in this country. The museum of Hygiene, the National Museum, the Smithsonian Institution, the Botanic Gardens, and the Department of Agriculture all afford opportunities for study in Medicine and its allied sciences.

#### CLINICS

The city of Washington, with about a million inhabitants, provides ample clinical material. The University Hospital and Dispensary furnish clinical facilities and a large proportion of the materials studied in the courses in pathology and clinical pathology.

*The University Hospital.*—All clinics are under the supervision of the Dean, who is also Medical Director of the Hospital. This insures the highest possible utilization of available clinical material for teaching purposes and the proper supervision of clinicians and students; it brings the individual student into direct contact with patients and requires him to do, under authoritative supervision, the clinical and laboratory work necessary for diagnosis and treatment; and it permits proper interpretation of the conditions occurring during the progress of cases and promotes the keeping of adequate records. Clinical and clinico-pathological conferences are held in which the history of cases, the physical findings, laboratory records, and the post-mortem pathology when available, are presented and correlated.

*The University Dispensary.*—The Dispensary has a large out-patient service in all departments, to which several thousand visits are made annually. Fourth-year students are assigned in rotation by sections for clinical instruction in the Dispensary.

*Gallinger Municipal Hospital.*—Clinical instruction is available in all branches of medicine. A great wealth of clinical material is afforded



in this hospital by ordinance of the municipal authorities of the District of Columbia, whereby one-half of the patients are assigned for treatment and clinical teaching to members of the Faculty of this School, nominated by this University. Third-year students serve their clinical clerkships at this institution.

*Children's Hospital.*—Clinical instruction in pediatrics, dermatology, and orthopedic surgery.

*Emergency Hospital and Central Dispensary.*—Clinical instruction in medicine, surgery, obstetrics and gynecology, and the specialties.

*Garfield Memorial Hospital.*—Clinical instruction in gynecology and obstetrics in the out-patient department, on the wards, and in the operating room.

*St. Elizabeths Hospital.*—Clinical instruction in mental and nervous diseases, medicine, post-mortem work, and gross pathology. This hospital, with five and one-half thousand beds, is maintained by the United States Government. The psychiatric clinic is one of the largest in the world.

*Episcopal Eye, Ear and Throat Hospital.*—Clinical instruction in ophthalmology, otology, rhinology, and laryngology.

#### ADMISSION, REGISTRATION, FEES AND FINANCIAL REGULATIONS

*Students in the School of Medicine are subject to, and are expected to familiarize themselves with, the regulations stated on pages 10-23.*

Registration in the School of Medicine is for a period of one academic year of two terms. After the student has entered the courses of instruction he is obligated for the full tuition for the year. No part of the tuition will be refunded upon withdrawal or dismissal for any cause. Acceptance by the School of a student's fees does not in any way obligate the School to accept the student for any subsequent year.

A fee of \$3 to defray the costs of completing the records for final consideration for admission must accompany each application. Fees for each term (including the University fee) are \$275, payable in advance.

Because the number of applicants far exceeds the limit of each class, places can be reserved for only those qualified applicants who remit a deposit of \$100 which will be credited toward the tuition of the first term. Should the matriculant be unable to attend, this initial payment, less a charge of \$50 for registration, transfer, etc., will be returned up to one month before the opening of the term.

Credit for work will not be given until, at the completion of a laboratory course, the student has replaced or paid for all articles of equipment or other University property which he has lost, broken, or destroyed. All breakage or loss not directly traceable to an individual student is assessed pro rata.

### COST OF TEXTBOOKS AND STUDENT EQUIPMENT

The minimum cost of necessary textbooks and student equipment (microscope, drawing materials, glass slides, clinical thermometer, stethoscope, hemocytometer, etc.) is approximately as follows: first year, \$250; second year, \$100; third year, \$75; fourth year, \$75; total \$500.

A fee of \$1 a term is charged for the use (optional) of a locker.

### REGULATIONS

*Students in the School of Medicine are subject to and are expected to familiarize themselves with, the general University regulations stated on pages 35-41.*

#### ABSENCE

Absence is not allowed unless an excuse is obtained from the Dean or the instructor.

Absence consists in being away from a class or clinic during a scheduled period, entering after the class or clinic has begun, or leaving before either is dismissed.

Excuse for absence due to sickness must be accompanied by a certificate signed by the attending physician and must be filed in the Office of the Dean.

For every unexcused absence a department will deduct one-half of one per cent from the student's final grade in the subject involved.

#### GRADES

The following grading system is used: *A* (90-100); *B* (80-89); *C* (75-79); *D* (65-74) condition; *E* (below 64) failure; *Inc.*, incomplete. The passing grade in each subject is *C*.

#### FAILURE

A student who has failed in any subject will not be advanced until such failure is removed and then only by authority of the Committee on Scholarship. All conditions must be removed at the next make-up examination period provided for this purpose.

#### EXAMINATIONS

Examinations, which may be written, oral, or practical, will be held at the end of each term.

A student who fails to appear at a regularly scheduled final examination will not be examined until the next regular examination, except by special permission of the Committee on Scholarship. For make-up examinations to remove conditions, a fee of \$5 will be charged for each subject.

All students in the School of Medicine are required to take Part I and Part II of the National Board Examinations, except that students from those states and foreign countries which do not recognize the National Board may be exempted from Part II by action of the Committee on Scholarship.

SPECIAL UNDERGRADUATE AND GRADUATE ADVANTAGES  
PHYSICAL EXAMINATIONS\*

All first-year students are given a comprehensive physical examination by the Department of Health Administration upon admission to the School of Medicine. The students are informed of the findings and advised regarding such measures as will tend to maintain a high standard of health.

In addition medical students benefit from the complete Tuberculosis Case Finding Program which the School has maintained since 1938-39. Under this program all students receive tuberculin tests, X-ray examinations, and such special attention from chest specialists as is necessary to reduce to a minimum the dangers from tuberculosis to which medical students are believed to be subject. Students are immunized against those diseases for which proven prophylactics exist.

RESERVE OFFICERS' TRAINING CORPS, U. S. ARMY, MEDICAL UNIT

A Medical Unit of the Reserve Officers' Training Corps is established in this School by authority of the Secretary of War, and an officer of the Medical Corps of the Army is detailed to the University for supervision and instruction of the unit.

Membership in the Unit, which is voluntary, is open to any physically fit male student who is a citizen of the United States. The instruction is divided into two two-year courses, the basic and the advanced. Students who satisfactorily complete the basic course may, up to the quota allowed by the War Department, enter the advanced course. A student who enters the advanced course receives approximately \$200 from the Government. He is obligated to complete the course.

A student who successfully completes the course is recommended for a commission in the Medical Section, Officers' Reserve Corps, if he desires appointment. A graduate may, after completion of one year's internship in a civil hospital, compete in the examinations held yearly for appointment as first lieutenant in the Medical Corps, Regular Army.

HOSPITAL APPOINTMENTS

Interns and residents are appointed annually in the University Hospital. Students who, after graduation, desire internships in other hospitals

\* A charge of \$2 is made if a student fails to appear for a physical examination during the period set for this purpose.



should apply directly to the institution which they wish to enter. A list of hospitals approved for intern training is published annually in the *Journal of the American Medical Association*, and a copy of the list may be consulted in the Office of the Dean.

#### COMMISSION ON LICENSURE, DISTRICT OF COLUMBIA

Graduates who wish to take the examinations of the Commission on Licensure, District of Columbia, or desire to use the District license for reciprocity with the states, should apply to the Secretary, Commission on Licensure, Healing Arts Practice Act, District Building, Washington 1, D. C.

#### DEPARTMENTS OF INSTRUCTION

The work of the School is organized under the following departments: Anatomy; Bacteriology, Hygiene, and Preventive Medicine; Biochemistry; Dermatology and Syphilology; Medicine; Military Science and Tactics; Neurology; Obstetrics and Gynecology; Ophthalmology; Otorhino-laryngology; Pathology; Pediatrics; Pharmacology; Physiology; Psychiatry; Surgery; and Urology.

#### CLINICS

Courses of clinical instruction are included in the announcements of the clinical departments. The Dean prepares schedules of clinics and of student section assignments to the various hospitals and dispensaries.

#### THE DEGREE OF DOCTOR OF MEDICINE

Upon the satisfactory completion of the requirements of the School of Medicine, the degree of Doctor of Medicine is conferred.

#### REQUIREMENTS FOR THE DEGREE

Every candidate for graduation with the degree of Doctor of Medicine must be at least twenty-one years of age, of reputable character, and free of all indebtedness to the University. He must have satisfied the admission requirements, completed satisfactorily not less than four academic years of study as a matriculated student in Medicine, completed all required courses, and passed satisfactorily all prescribed examinations.

#### COMBINED ARTS AND MEDICINE CURRICULUM

In order to be recommended for the degree of Bachelor of Arts, the candidate must complete at least ninety credit hours of prescribed college work (at least thirty credit hours and one year of residence must be completed in Columbian College, the senior liberal arts college), and the

first year of the medical curriculum. Upon satisfactory completion of the fourth year of the medical curriculum the student becomes eligible for the degree of Doctor of Medicine.

#### HONORS

A candidate who has completed the four-year medical course with an average grade of *A* may be recommended for graduation "with distinction".

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#### GRADUATE AND POSTGRADUATE INSTRUCTION

In cooperation with the Kellogg Foundation, the School of Medicine offers annual intensive refresher courses for physicians with previous specialty training who wish to be brought up-to-date in the constant changes occurring in the techniques and methods of general medicine and the specialties.

In planning this series, the Medical School takes advantage not only of the usual hospital and health facilities of a city and its less urban surroundings but also of the great federal hospitals and research institutions in the National Capital. The postgraduate work, handled through lectures, roundtable discussions, and clinical training, is under the direction of the staff of the School of Medicine and a large guest faculty from all parts of the country selected because of eminence in the specialties.

The 1946 series included the following specialties as well as a course in general medicine:

Anesthesiology	Internal Medicine
General Surgery	Obstetrics
Gynecology	Pediatrics
Infectious Diseases	Psychiatry and Neurology
	Public Health Practice

Correspondence relative to this series of postgraduate courses should be addressed to the Director of Postgraduate Instruction, The School of Medicine.

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In addition to the program described above, an annual, intensive, one-week postgraduate course for physicians is offered by the Department of Ophthalmology in the following subjects: *Ophthalmic Pathology, Surgery, and Orthoptics.*

#### ORTHOPTIC TECHNICIAN TRAINING COURSE

A six-month course, of 675 hours of clinical and classroom work, is offered for the training of orthoptic technicians by the Department of Ophthalmology.

**MEDICAL TECHNOLOGISTS COURSE**

The course for medical technologists consists of twelve consecutive months of didactic and practical work in all phases of clinical laboratory technique. The course meets the full requirements of The Registry of Medical Technologists and The American Society of Clinical Pathologists. Prerequisite: Biology, 12 credit hours of which at least 6 must be Zoology. The other 6 may be elected from: Histology, Embryology, Anatomy, Physiology, Parasitology, and Bacteriology. Chemistry: General Inorganic Chemistry, 8 credit hours of which at least 4 credit hours must be laboratory work. Quantitative Analysis: at least 4 credit hours with not less than 1 credit hour of laboratory work. (Organic Chemistry may be substituted for Quantitative Analysis, for the present.) Electives: Sufficient to give a total of 60 hours of college credit. The following courses are highly recommended but they are not required: Physics, Biochemistry, Advanced Bacteriology, and Mathematics.



## THE LAW SCHOOL

### THE FACULTY AND STAFF OF INSTRUCTION\*

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*

William Cabell Van Vleck, A.B., LL.B., S.J.D., *Dean of the Law School*

William Cabell Van Vleck, A.B., LL.B., S.J.D., *Professor of Law*

Charles Sager Collier, A.B., LL.B., S.J.D., *Professor of Law*

Hector Galloway Spaulding, B.S., LL.B., S.J.D., *Professor of Law*

†William Thomas Fryer, A.B., LL.B., J.D., *Professor of Law*

Saul Chesterfield Oppenheim, A.M., J.D., S.J.D., *Professor of Law*

Carville Dickinson Benson, A.B., LL.B., S.J.D., *Professor of Law*

‡James Forrester Davison, A.B., LL.M., S.J.D., *Professor of Law*

James Oliver Murdock, Ph.B., LL.B., *Professor of Law*

‡John Albert McIntire, A.B., LL.B., *Professor of Law*

John Sentmas Strahorn, Jr., A.B., LL.B., S.J.D., *Visiting Professor of Law*

Lloyd Hall Sutton, B.S., LL.B., *Adjunct Professor of Law*

Conway Peyton Coe, A.B., LL.B., *Adjunct Professor of Law*

Levi Russell Alden, A.M., LL.B., *Adjunct Professor of Law*

George Bowdoin Craighill, A.B., LL.B., *Adjunct Professor of Law*

James Ward Morris, A.B., *Adjunct Professor of Law*

James Robert Kirkland, A.B., LL.M., *Adjunct Professor of Law*

Elmer Mayse Million, A.B., LL.B., J.S.D., *Professorial Lecturer in Law*

Edward Schaad Stimson, B.S., A.M., J.D., S.J.D., *Professorial Lecturer in Law*

‡William Randall Compton, M.B.A., LL.B., J.S.D., *Associate Professor of Law*

‡Chester Charles Ward, B.S., LL.M., *Associate Professor of Law*

§Clarence Altha Miller, LL.M., *Lecturer in Law*

Justin Lincoln Edgerton, A.B., LL.B., *Lecturer in Law; Clerk of the Moot Court*

Jay Wesley Murphy, A.B., J.D., LL.M., *Lecturer in Law*

### THE DEAN'S COUNCIL†

Charles Sager Collier

Saul Chesterfield Oppenheim

Hector Galloway Spaulding

\* The President of the University, the Dean of the School, the Registrar of the University, the Director of Admissions of the University, Professors, Adjunct Professors, and Associate Professors constitute the Faculty.

† On war leave 1946-47.

‡ On leave of absence 1946-47.

§ The President of the University and the Dean of the Law School are ex officio members of the council.

## GENERAL INFORMATION

## INTRODUCTORY

The George Washington University Law School, established in 1826, discontinued and reorganized in 1865, is the oldest law school in the District of Columbia. Its course of instruction is planned to fit its graduates for the practice of law in any of the states of the United States or in foreign countries, the law of which is based on the Anglo-American legal system. It is also designed to prepare students for public service as lawyers in the Federal Government or the governments of the states. In 1900 the School took part in the organization of the Association of American Law Schools and it has been a member of the Association since that time. The School is approved by the Council of Legal Education of the American Bar Association.

## ORGANIZATION OF THE ACADEMIC YEAR

The work of the year is organized into three terms known as the fall term, winter term, and summer term. The work undertaken in any one term may be completed by the end of that term. The summer term constitutes a full term of sixteen weeks. It is divided into two sessions so that work undertaken during one session may be completed during that session.

## THE LIBRARY

The Law School Library of 25,000 volumes contains the official reports of the decisions of the courts of last resort of all the states prior to the National Reporter System and of fourteen states complete to date; the National Reporter System, complete; the reports of the United States Supreme Court and lower federal courts, and the reports of federal administrative agencies; Shepard's Citations for the units of the Reporter System; the English Reprint and English Law Reports; the United States Statutes; the United States Code, Annotated, and the Federal Code, Annotated; reasonably complete sets of statutes of all of the states; the English statutes; the principal English and American digests and encyclopedias; collections of special reports and annotated cases; and the leading textbooks, casebooks, and legal periodicals.

The Library is open from 9:00 A.M. to 10:00 P.M. each class day (Saturday, 9:00 A.M. to 1:00 P.M.), and from 2:00 to 6:00 P.M. on Sunday.

## THE LAW REVIEW

*The George Washington Law Review*, published by the University, is edited by the Faculty and students of the Law School. It is devoted exclusively to state and federal public law. The location of the Univer-

sity in the national Capital, where the primary sources of federal public law may be observed in operation, affords an unexcelled opportunity for specialization in this field.

The *Review* is edited by a faculty editor-in-chief, a faculty board of associate editors, a board of departmental advisory editors, and a board of student editors. The student editors are chosen each year on the basis of scholarship.

#### RESEARCH IN PUBLIC LAW

Washington, the capital of the Nation, furnishes unsurpassed advantages for research in the fields of public law. In it are the offices of the major executive departments, the Congress, the Supreme Court of the United States, and four lower federal courts. In the executive departments and among the many independent establishments of the Federal Government there have been estimated to be between seventy-five and one hundred agencies, the activities of which involve the various branches of public law, particularly administrative law. The student of public law can study at first hand the work of these administrative agencies. He also has available as sources for investigation their records of administrative adjudications.

Research in public law will be conducted under the supervision of members of the faculty. The purpose of this research is to furnish means for training specialists in public law, either as government lawyers or as lawyers representing individuals or corporations in cases in which the Government is a party, and to assist in the analysis, clarification, formulation, and improvement of public law, substantive and procedural.

Candidates for the graduate degrees in the Law School and seniors who are candidates for the degree of Juris Doctor are eligible to pursue this work. Other students may be admitted with the special permission of the professor in charge.

#### COURSE OF STUDY FOR FOREIGN LAWYERS

This course of study is designed to meet the needs of lawyers who come from countries, the legal systems of which are based on the Roman or Civil Law. It attempts to provide for such students a course sufficient to enable them to acquire an understanding of the fundamentals of the common law so that they may work intelligently with common law materials and common law practitioners. In this program the students are not assigned to special classes but work in association with other students in the common law subjects. No fixed program of required courses is attempted but for each student is worked out a program best adapted to his individual needs.



### THE STUDENT BAR ASSOCIATION

Every student in the Law School is required to be a member of the Student Bar Association. This is organized to enable the student to become better acquainted with problems of the profession, to develop better professional ideals, and to bring about closer contact with members of the profession engaged in active practice of the law.

The work of the Student Bar Association is carried on by various committees and by group and general meetings of a professional and social nature. From time to time lectures are given by outstanding authorities on legal and professional problems.

Each member of the Student Bar Association receives a subscription to *The George Washington Law Review*.

### PRACTICE AND PRACTICE COURT

The curriculum is planned to include such training in the fundamentals of practice as is feasible in a law school. Classroom instruction is conducted in the theories of pleading and procedure, trial and appellate practice, and evidence. This instruction includes grounding in the principles of the new Federal Rules of Civil Procedure. In addition each senior student is required to participate in the work of the practice or Moot Court. This includes trying a specified number of cases, both as a senior counsel and junior counsel. For students who are planning to practice patent law, a special section of the court is conducted devoted exclusively to the trial of patent cases.

### ORDER OF THE COIF

The Order of the Coif, a national honor society with chapters in thirty-five law schools, aims "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship". The George Washington University Chapter was established in 1926. Members are elected each year from the highest-ranking 10 per cent of the graduating class of the Law School.

### REGULATIONS

*Students in the Law School are subject to, and are expected to familiarize themselves with, the regulations concerning ADMISSION, REGISTRATION, FEES AND FINANCES stated on pages 10-23, and the University regulations stated on pages 35-41.*

### HOURS OF INSTRUCTION

Students without substantial outside employment may take a full-time program of studies in the forenoon classes from 10:10 A.M. to 1:00 P.M.

Primarily for the accommodation of employed students, a regular course may be taken in classes held from 6:20 to 8:00 P.M.

#### ATTENDANCE

Regular attendance on classes is required and is necessary for successful work. A student who is deficient in class attendance in any subject may, by action of the Dean's Council, be barred from taking the examination in that subject.

#### RESIDENCE REQUIREMENTS

A year's attendance in the evening classes is counted as residence for three-fourths of a year. A student admitted with advanced standing must complete at least one year of residence in this School and pass twenty-eight credit hours with the required average for the degree.

#### GRADES

At the end of each term each student is given a letter grade in each subject completed and a letter grade indicating the average for the term.

Grades are indicated by the letters *A*, excellent; *B*, good; *C*, satisfactory; *D*, poor—below standard for graduation; and *F*, failed.

The grades *A*, *B*, *C*, and *D*, mean that the work has been successfully completed and credit given for the subjects.

*F*, failed, means that no credit will be given. To obtain credit the student must repeat the subject; but a student who has obtained an average of *C* in the work of the academic year and received a grade of *F* in only one subject may take the next regular examination in that subject, and if on such reexamination he obtains a passing grade he will be given credit in the subject.

#### EXAMINATIONS

Every student is required to take the regular examinations in the subjects pursued, unless excused by the Dean. A student who, with the consent of the Dean, does not take the examination in a subject with the class in which he is enrolled may take the next regular examination given in the subject.

No special examinations will be given; except that, upon written application to the Dean's Council, showing sufficient cause, a candidate for a degree at a convocation before the next regular examination, if he would be entitled to take a postponed examination, may, at the discretion of the Dean's Council, be given a special examination.

#### EXCLUSION AND PROBATION FOR POOR SCHOLARSHIP

A student who during an academic year fails in courses aggregating eight or more credit hours will be excluded. Such a student is not eligible to be registered in the Law School or to attend classes in the next academic year. He may, however, be admitted to the regular examinations

in that academic year in those subjects in which he has made a grade below passing, and if he receives a grade of passing in these subjects with an average sufficient to make his general average not less than *C*, he will be reinstated at the beginning of the academic year next succeeding the passing of these examinations.

A student not subject to exclusion under the foregoing rule who at the end of an academic year has failed to maintain a general average of at least *C*, will be on probation during the next academic year. A student on probation may at the discretion of the Dean be required to reduce his program of study. A student on probation will be excluded at the end of the probationary year unless he has made grades sufficient to give him a general average of at least *C*.

The general average of a student includes all the grades in all the subjects taken while he is in the Law School working for a particular degree. When a subject is repeated or a reexamination is taken, both the first grade and the subsequent grade or grades are counted in the general average.

In special cases in which it is clear that the student's failure does not indicate lack of ability to pursue the study of law, the student who has become subject to exclusion may be readmitted by vote of the Dean's Council of the Law School.

No student is put on probation or excluded because of the work of one term only, or as the result of a program of less than four hours a week during the academic year.

#### CLASSIFICATION OF STUDENTS

\*Students are divided into classes on the completion of credit hours as follows: first year, one through twenty-eight; second year, twenty-nine through fifty-six; third year, fifty-seven or more.

#### THE DEGREES

##### IN THE PROFESSIONAL COURSE

These degrees are Bachelor of Laws (LL.B.) and Juris Doctor (J.D.).

##### REQUIREMENTS FOR THE DEGREE OF BACHELOR OF LAWS

To be recommended for this degree the student must have completed: (1) a residence period of not less than three academic years on a full-time basis or four years on a part-time basis; (2) eighty credit hours, including the course in Moot Court, with a general average of at least *C*.

*Combined Degrees of Bachelor of Arts and Bachelor of Laws.*—A candidate for the combined degrees of Bachelor of Arts and Bachelor of



Laws must: (1) complete three years of satisfactory college work; (2) fulfill the residence requirement of at least thirty credit hours of Columbian College, the School of Government, or the School of Education; (3) obtain the approval of the Dean of the college concerned at the time of entering the Law School; (4) obtain the recommendation of the Dean of the Law School at the completion of the first year of the Law School with a grade of not less than middle *C*, at which time the degree of Bachelor of Arts will be conferred (Professional work taken at another institution will not satisfy the major requirement for the combined degrees); (5) maintain throughout the entire course the scholarship level required for graduation.

*Combined Degrees of Bachelor of Science in Engineering and Bachelor of Laws.*—The requirements for the combined degrees are stated on pages 106 and 107.

#### REQUIREMENTS FOR THE DEGREE OF JURIS DOCTOR

This degree is conferred as a recognition of the completion at the George Washington University Law School, with high rank, of the full professional course including experience in research and legal authorship.

To be recommended for this degree the student must have completed: (1) a residence period of not less than three academic years on a full-time basis or four years on a part-time basis in the Law School; (2) eighty credit hours with a general average of at least *B* including the course in Moot Court and either the course in Comparative Law or one of the graduate seminars; and (3) one year of acceptable service on the board of student editors of *The George Washington Law Review*, election to which is subject to regulations laid down by the Faculty.

#### HONORS

The degree of Bachelor of Laws or of Juris Doctor "with distinction" will be awarded the student who obtains a general average of *A* in the work for the degree.

#### IN THE GRADUATE COURSE

These degrees are Master of Laws (LL.M.), Master of Comparative Law (M.Comp.L.), and Doctor of Juridical Science (S.J.D.).

#### REQUIREMENTS FOR THE DEGREE OF MASTER OF LAWS

To be recommended for this degree the student must have completed a residence period of not less than one academic year. He must have completed satisfactorily twenty credit hours of subjects in the graduate curriculum. In individual cases, third- or fourth-year subjects listed in

the professional curriculum may be included in the program of study. All requirements for this degree must be completed in a period not exceeding two academic years.

#### REQUIREMENTS FOR THE DEGREE OF MASTER IN COMPARATIVE LAW

To be recommended for this degree the student must have completed a residence period of not less than one academic year. He must have completed satisfactorily twenty-four credit hours of approved subjects in the curriculum of the Department of Law or of such other departments of the University as the faculty of the Law School shall approve.

#### REQUIREMENTS FOR THE DEGREE OF DOCTOR OF JURIDICAL SCIENCE

To be recommended for this degree the student must have completed a residence period of not less than one academic year. He must have pursued a course of study and research designated by his consultative committee and approved by the Dean's Council of the Law School. At the conclusion of his first year of residence or at such other time as the consultative committee may set, the candidate must pass an oral examination in those fields of study selected by the consultative committee. This examination shall be conducted by the consultative committee and such other members of the faculty as may be assigned by the Dean.

Not later than the date specified in the University calendar the candidate must submit to the Dean one typewritten original and two legible and complete carbon copies of his thesis in its final form and also a typewritten summary of the thesis consisting of not more than 2,500 words. To be acceptable the thesis must, in the opinion of the examining committee, constitute a substantial contribution to the field of law concerned and be suitable for publication. Requirements regarding the form of the thesis are stated on page 39, and additional information will be supplied by the Dean.

The summaries of accepted theses will be printed in a volume forming a number of the University BULLETIN. The successful candidate for the doctorate is required, before receiving his degree, to pay a fee to cover the expense of printing the summary of his thesis.

## THE SCHOOL OF ENGINEERING

### THE FACULTY AND STAFF OF INSTRUCTION\*

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
Frederick Morris Feiker, B.S. in E.E., D.Eng., *Dean of the School of Engineering*  
Carl Hugo Walther, B.E., M.C.E., *Assistant Dean of the School of Engineering*

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Thomas Benjamin Brown, Ph.D., *Professor of Physics*  
Frank Artemas Hitchcock, M.S. in C.E., C.E., *Professor of Civil Engineering*  
Norman Bruce Ames, M.S., E.E., LL.B., *Professor of Electrical Engineering*  
Arthur Frederick Johnson, M.E., Ph.D., *Professor of Mechanical Engineering*  
James Henry Taylor, Ph.D., *Professor of Mathematics*  
Frank Mark Weida, Ph.D., *Professor of Statistics*  
Frederick Morris Feiker, B.S. in E.E., D.Eng., *Professor of Engineering Administration*  
Merle Irving Protzman, Ph.D., *Professor of Romance Languages*  
Benjamin Carpenter Cruickshanks, B.S. in M.E., *Professor of Mechanical Engineering*  
Forest Klaire Harris, Ph.D., *Professorial Lecturer in Electrical Engineering*  
Newbern Smith, M.S. in E.E., Ph.D., *Professorial Lecturer in Electrical Engineering*  
Waldo Edward Smith, B.E., M.S. in C.E., *Professorial Lecturer in Civil Engineering*  
Milton Kent Akers, B.S., E.E., *Associate Professor of Electrical Engineering*  
Charles Rudolph Naeser, Ph.D., *Associate Professor of Chemistry*  
Carl Hugo Walther, B.E., M.C.E., *Associate Professor of Civil Engineering*  
Wolfram Karl Legner, Ph.D., *Associate Professor of German*  
Averett Howard, A.M., *Assistant Professor of English*

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\* The President of the University, the Dean of the School, the Registrar of the University, the Director of Admissions of the University, Professors, Associate Professors, and Assistant Professors constitute the Faculty.



Lloyd Butler Ritchey, B.S. in M.E., M.S. in Eng., *Assistant Professor of Mechanical Engineering*  
 Edgar Stover Walker, B.S. in C.E., *Lecturer in Civil Engineering*  
 Joseph Carl Oleinik, B.S. in C.E., M.S., *Lecturer in Civil Engineering*  
 William Hayward, B.S. in C.E., *Lecturer in Civil Engineering*  
 Ralph Edward Fuhrman, B.S. in C.E., M.S., *Lecturer in Civil Engineering*  
 Moses Freedman, B.S. in Eng., *Lecturer in Civil Engineering*  
 Don Ivor Gulbrandson, B.S. in C.E., *Lecturer in Civil Engineering*  
 Harold Harrison Dutton, B.S. in C.E., *Associate in Civil Engineering*  
 Dwight Edward Shytte, *Associate in Electrical Engineering*  
 Edmund Douglas Schreiner, B.E.E., *Associate in Electrical Engineering*  
 Perry Harold Petersen, B.S. in C.E., *Associate in Civil Engineering*  
 Thomas Alvin O'Halloran, B.E.E., *Associate in Electrical Engineering*

# THE DEAN'S COUNCIL\*

1947

Benjamin Carpenter Cruickshanks  
 Arthur Frederick Johnson

1948

Milton Kent Akers  
 Frank Artemas Hitchcock

1949

James Henry Taylor  
 Charles Rudolph Naeser

## GENERAL INFORMATION

### INTRODUCTORY

#### HISTORY AND ACCREDITATION

The School of Engineering was organized in 1884 as the Corcoran Scientific School. In 1903 that school was combined with Columbian College in the Department of Arts and Sciences. In 1905 the engineering courses were placed under an administrative organization known as the Washington College of Engineering and in 1909 the name was changed to the College of Engineering and Mechanic Arts. In 1914 the name became the School of Engineering.

Courses leading to the degrees of Bachelor of Civil Engineering, Bachelor of Mechanical Engineering, and Bachelor of Electrical Engineering are accredited by the Engineers' Council for Professional Development, the recognized accrediting body of the engineering profession, composed

\* Elected by the Faculty. The President of the University and the Dean and Assistant to the Dean of the School of Engineering are members ex officio of the council.

of representatives of the American Society of Civil Engineers, the American Institute of Mining and Metallurgical Engineers, the American Society of Mechanical Engineers, the American Institute of Electrical Engineers, the Society for the Promotion of Engineering Education, the American Institute of Chemical Engineers, and the National Council of State Boards of Engineering Examiners.

#### REGULATIONS

*Students in the School of Engineering are subject to, and are expected to familiarize themselves with, the regulations concerning ADMISSION, REGISTRATION, FEES AND FINANCES stated on pages 10-23, and the University regulations stated on pages 35-41.*

#### AMOUNT OF WORK

Eighteen credit hours, including required physical education, constitute normal full-time work. Nine credit hours constitute normal part-time work.

A full-time student who is not on probation may take ordinarily not more than nineteen credit hours. A student employed more than twenty-four hours a week, who is not on probation, may take ordinarily not more than ten credit hours. A student whose quality-point index is 3.00 or higher may be permitted by the Dean to exceed these limits by not more than two credit hours.

A student previously unemployed who accepts employment subsequent to registration or at any time during a term is required to report that fact immediately to the Dean, in order that adjustments in schedule may be made, if necessary, to bring his program within the Faculty's limitations upon the amount of work to be carried by an employed student.

#### ATTENDANCE

The student is expected to attend every meeting of the course in which he is registered fully prepared to carry on the work required. The student is held responsible for all work in the course, and all absences must be excused before provision will be made for him to make up the work missed. Excuses for absences from examinations which have been announced in advance can be obtained only by making written application to the instructor in charge of the course.

#### THE BACHELOR'S DEGREES

The Bachelor's degrees are: Bachelor of Civil Engineering, Bachelor of Electrical Engineering, Bachelor of Mechanical Engineering, and Bachelor of Science in Engineering.

The degree of Bachelor of Science in Engineering may be earned with any of the following majors: Business Administration, Chemistry, Economics, Mathematics, Naval Architecture, Physics, or Statistics.

In cooperation with the Law School a six-year curriculum leading to the combined degrees of Bachelor of Science in Engineering and Bachelor of Laws is offered.

### REQUIREMENTS FOR THE DEGREES

#### SCHOLARSHIP

The system of grading and computing scholarship is described in detail on pages 35 and 36.

In order to graduate, a student must have a quality-point index of at least 2.00. No student whose quality-point index is below 2.00 will be admitted to the junior year.

*Probation.*—A student must maintain a quality-point index of at least 2.00, or be placed on probation. A student remains on probation as long as his quality-point index is below 2.00, or until his probation is removed by the Dean's Council.

*Suspension.*—A student who has a quality-point index below 1.50 or who is placed on probation for a third term, whether successive or after an interval, will be suspended. A student suspended for poor scholarship may apply for readmission after an interval of one calendar year. He must then submit evidence to the Dean's Council that during his absence from the University he has so conducted himself as to indicate that he will profit by readmission. A student suspended twice for poor scholarship will not be readmitted.

#### USE OF CORRECT ENGLISH

Any student whose English in any course whatever is deemed unsatisfactory may be reported by the instructor to the Dean's Council. The Council may assign supplementary work, without academic credit, varying in amount with the needs of the student. If the work prescribed is equivalent to a course, the regular tuition fee is charged. The granting of a degree may be delayed for failure to make up any such deficiency in English to the satisfaction of the Dean's Council.

The foregoing regulation is to be interpreted as applying to both written and spoken English.

#### RESIDENCE

One year, or thirty-six credit hours, must be completed in residence in the School of Engineering. Summer term work may be counted in residence, but in no case may the period of residence aggregate less than



thirty weeks. Unless special permission is granted by the Dean to pursue work elsewhere, the work of the senior or final year must be completed in residence.

### CURRICULUM REQUIREMENTS

The satisfactory completion of one of the following curricula of 144 credit hours is required.

Variations from the prescribed curricula may be made, with the permission of the Dean's Council. A student desiring to omit a required course and substitute another must make written application to the Dean, presenting satisfactory reasons for the substitution; and written approval must be obtained before registration for the course.

FRESHMAN YEAR (FOR ALL ENGINEERING CURRICULA)		Credit Hours
*Chem. 11-12	General Chemistry .....	8
CE 2	Plane Surveying .....	3
Engl. 1-2	Freshman English .....	6
Math. 12	Plane Analytic Geometry .....	3
Math. 19	Differential Calculus .....	3
ME 1	Engineering Survey and Orientation .....	1
ME 3	Mechanical Drawing .....	2
ME 4	Descriptive Geometry .....	2
Phys. Ed.	Physical Education .....	2
†Phys. 6 and 7	General Physics .....	6
Total .....		36

### Bachelor of Civil Engineering

SOPHOMORE YEAR		Credit Hours
CE 21	Analytical Mechanics: Statics .....	2
CE 22	Analytical Mechanics: Dynamics .....	3
CE 23	Higher Surveying .....	4
EE 9-10	Elements of Electrical Engineering .....	6
Geol. 21-22	Physical and Historical Geology .....	3
Math. 20	Integral Calculus .....	2
Phys. Ed.	Physical Education .....	2
Phys. 8	General Physics .....	6
Elective	Economics 1-2 or modern language .....	3
Elective	.....	
Total .....		37

\* The student who has credit for high school chemistry from an accredited high school may be excused from Chemistry 11 upon passing a qualifying examination given at the beginning of each term. He will be permitted to take Chemistry 12 and 21 instead.

† The student who begins physics with Physics 6 or 7 is subject to a qualifying examination. Credit will be given for Physics 5 or Chemistry 11 if not used for entrance requirements.

## JUNIOR YEAR

Credit  
Hours

CE 25-26	Materials of Construction.....	4
CE 123	Strength of Materials.....	3
CE 136	Hydraulics .....	3
CE 140	Materials and Hydraulics Laboratory.....	2
CE 141	Graphic Statics .....	3
CE 142	Bridge Stresses .....	3
CE 164	Highway Engineering .....	3
CE 171	Route Surveying .....	3
CE 172	Railroad Engineering .....	3
CE 187	Contracts and Specifications.....	2
ME 111-12	Thermodynamics .....	6
Speech 1	Principles of Effective Speaking.....	3
Total.....		38

## SENIOR YEAR

Credit  
Hours

CE 147-48	Structural Design .....	4
CE 149-50	Concrete and Masonry Construction.....	6
CE 151-52	Statically Indeterminate Structures.....	4
CE 181-82	Water Supply and Sewerage.....	6
CE 189-90	Civil Engineering Proseminar.....	2
ME 141-42	Management Problems .....	4
Elective	.....	7
Total.....		33

## Bachelor of Electrical Engineering

## SOPHOMORE YEAR

Credit  
Hours

CE 21	Analytical Mechanics: Statics.....	2
CE 22	Analytical Mechanics: Dynamics.....	3
EE 9-10	Elements of Electrical Engineering.....	6
Math. 20	Integral Calculus .....	3
Math. 132	Differential Equations .....	3
ME 13-14	Mechanism .....	4
Phys. Ed.	Physical Education .....	2
Phys. 8	General Physics .....	2
Phys. 55	Physical Measurements .....	2
Elective	Economics 1-2 or modern language.....	6
Elective	.....	5
Total.....		38

*The Colleges, Schools, and Divisions*

		Credit Hours
<b>JUNIOR YEAR</b>		
CE 115-26	Materials of Construction.....	4
CE 123	Strength of Materials.....	3
CE 136	Hydraulics .....	3
EE 17-18	Direct-Current Laboratory .....	4
EE 101	Electric Circuits .....	3
EE 102	Alternating-Current Machinery .....	3
EE 111-12	Electrical Measurements .....	4
ME 111-12	Thermodynamics .....	6
Phys. 132	Electronics .....	3
Speech 1	Principles of Effective Speaking.....	3
<b>Total.....</b>		<b>36</b>
<b>SENIOR YEAR</b>		
CE 140	Materials and Hydraulics Laboratory.....	2
EE 103	Alternating-Current Machinery .....	3
EE 133-34	Alternating-Current Laboratory .....	4
EE 189-90	Proseminar in Electrical Engineering.....	2
ME 115	Mechanical Laboratory .....	2
Elective	Business Administration or Economics.....	6
Choice	(1) Communications Option, or (2) Power Option..	15
<b>Total.....</b>		<b>34</b>
<b>1. Communications Option</b>		<b>Credit Hours</b>
EE 151-52	Communication Engineering .....	4
EE 161-62	Communications Laboratory .....	4
Elective	.....	7
<b>2. Power Option</b>		<b>Credit Hours</b>
EE 125-26	Principles of Electric Power Transmission.....	4
EE 136	Hydro-Electric Engineering .....	2
EE 137	Electric Traction .....	2
EE 140	Electrical Design .....	3
Elective	.....	4
<b>Bachelor of Mechanical Engineering</b>		
<b>SOPHOMORE YEAR</b>		<b>Credit Hours</b>
CE 21	Analytical Mechanics: Statics.....	2
CE 22	Analytical Mechanics: Dynamics.....	3
EE 9-10	Elements of Electrical Engineering.....	6
Math. 20	Integral Calculus .....	3
ME 7	Machine Drawing .....	2
ME 8	Mechanism Drawing .....	2
ME 13-14	Mechanism .....	4
Phys. Ed.	Physical Education .....	2
Phys. 8	General Physics .....	2
Phys. 55	Physical Measurements .....	2
Elective	Economics 1-2 or modern language.....	6
Elective	Mathematics .....	3
<b>Total.....</b>		<b>37</b>



JUNIOR YEAR

Credit  
Hours

CE 25-26	Materials of Construction.....	4
CE 123	Strength of Materials.....	3
CE 136	Hydraulics .....	3
CE 140	Materials and Hydraulics Laboratory.....	2
CE 141	Graphic Statics .....	3
EE 13-14	Direct- and Alternating-Current Laboratory.....	4
ME 111-12	Thermodynamics .....	6
ME 141-42	Management Problems .....	4
Speech 1	Principles of Effective Speaking.....	3
Elective	.....	3
Total.....		35

SENIOR YEAR

Credit  
Hours

ME 115-16	Mechanical Laboratory .....	4
ME 126	Methods of Manufacture.....	2
ME 127-28	Machine Design .....	4
ME 129-30	Power Plants .....	6
ME 131-32	Heating, Ventilating, Air Conditioning, and Refrigeration .....	4
ME 133	Combustion Engines .....	2
ME 139	Fluid Dynamics .....	3
ME 140	Dynamics of Machinery.....	3
ME 189-90	Proseminar in Mechanical Engineering.....	2
Elective	.....	6
Total.....		36

Bachelor of Science in Engineering

SOPHOMORE YEAR

Credit  
Hours

CE 21	Analytical Mechanics: Statics.....	2
CE 22	Analytical Mechanics: Dynamics.....	3
EE 9-10	Elements of Electrical Engineering.....	6
Math. 20	Integral Calculus .....	3
ME 13-14	Mechanism .....	4
Phys. Ed.	Physical Education .....	2
Phys. 8	General Physics .....	2
Elective	Business Administration or Speech.....	3
Elective	Economics 1-2 or modern language.....	6
Elective	Mathematics .....	3
Elective	Physics .....	3
Total.....		37

		Credit Hours
<b>JUNIOR YEAR</b>		
CE 25-26	Materials of Construction.....	4
CE 123	Strength of Materials.....	3
CE 136	Hydraulics .....	3
CE 140	Materials and Hydraulics Laboratory.....	2
EE 13-14	Direct- and Alternating-Current Laboratory.....	4
ME 111-12	Thermodynamics .....	6
Elective	.....	14
Total.....		36
<b>SENIOR YEAR</b>		
Bus. Adm. 101	Business Organization and Combination.....	1
Bus. Adm. 102	Business Management .....	3
Geol. 21-22	Physical and Historical Geology.....	6
ME 141-42	Management Problems .....	4
Elective	.....	19
Total.....		35

The purpose of the Bachelor of Science in Engineering curriculum is to allow a student who has demonstrated his ability to do better than passing work to center his attention upon a group of subjects in which he has special interest. Options may be elected in Business Administration, Chemistry, Economics, Mathematics, Naval Architecture, Physics, or Statistics. The student's choice of subjects for the entire junior and senior years must be submitted to the Dean's Council for approval *before* the beginning of the junior year. The student must comply with such requirements as to subjects, schedules, and scholarship as the department concerned may prescribe.

Curricula recommended by the several departments in which options may be elected are available in the Office of the Dean of the School of Engineering for the guidance of students in arranging their programs. Variations from these curricula may be made to satisfy the needs of the exceptional individual student. However, any variation must be approved in writing by the major department and the Dean's Council.

#### COMBINED BACHELOR OF SCIENCE IN ENGINEERING AND BACHELOR OF LAWS DEGREES

For those students who desire to enter the branches of the legal profession in which a background in engineering is necessary a six-year curriculum is offered, leading to the combined degrees of Bachelor of Science in Engineering and Bachelor of Laws. A candidate for the combined degrees must conform to the residence and scholarship requirements of the School of Engineering throughout the period of preparation for the degree in engineering. His scholarship level for the junior and senior

years must be acceptable to both the School of Engineering and the Law School. During the junior and senior years he must complete: (1) the required courses in engineering, (2) the 28 credit hours of courses required in the first year of the Law School, and (3) such electives as he needs to satisfy the 144 credit-hour requirement for the degree in engineering. Upon the satisfactory completion of the senior year, the degree of Bachelor of Science in Engineering will be conferred. The student will then continue his studies in the Law School; upon the satisfactory completion of which the degree of Bachelor of Laws will be conferred.

For detailed information the student should consult the deans of the School of Engineering and the Law School.

#### THE PROFESSIONAL DEGREES

The professional degree of Civil Engineer, Electrical Engineer, or Mechanical Engineer may be conferred upon a graduate of the School of Engineering who has demonstrated his professional ability.

#### REQUIREMENTS FOR THE DEGREES

1. Application may not be made sooner than three years after graduation, and then only if the candidate has had responsible charge of engineering work.

2. A detailed statement of the candidate's experience, references, the degree sought, and the title of the thesis must be filed with the Dean eight months before the Commencement at which the degree is to be conferred.

Detailed information concerning the preparation of the thesis may be obtained from the Office of the Dean.



## THE SCHOOL OF PHARMACY

### THE FACULTY AND STAFF OF INSTRUCTION\*

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
‡William Paul Briggs, M.S., *Dean of the School of Pharmacy*  
Charles Watson Bliven, M.S., *Acting Dean of the School of Pharmacy*

---

Walter Lynn Cheney, Ph.D., *Professor of Physics*  
Ira Bowers Hansen, Ph.D., *Professor of Zoology*  
Paul William Bowman, Ph.D., *Professor of Biology*  
Lawson Edwin Yocum, Ph.D., *Professor of Botany*  
William Paul Briggs, M.S., *Adjunct Professor of Pharmacy*  
Alan Thomas Deibert, A.M., *Associate Professor of Romance Languages*  
Chester Elwood Leese, Ph.D., *Associate Professor of Physiology*  
Samuel Nathaniel Wrenn, Ph.D., *Associate Professor of Chemistry*  
Charles Rudolph Naeser, Ph.D., *Associate Professor of Chemistry*  
Angus MacIvor Griffin, Ph.D., *Associate Professor of Bacteriology*  
Charles Watson Bliven, M.S., *Associate Professor of Pharmaceutical Chemistry*  
Gretchen Louisa Rogers, Ph.D., *Associate Professor of German*  
Asa Vernon Burdine, *Lecturer on Pharmaceutical Economics*  
Harold Clayton Kinner, B.S. in Phar., *Lecturer on Pharmaceutical Law*  
Leopold Henry Forster, Phar.G., *Instructor in Hospital Pharmacy*  
Emily Anna May Godfrey, B.S. in Ed., *Instructor in Pharmacy*  
Jane Gass, M.S., *Instructor in Pharmacology and Pharmacognosy*

#### SEMINAR LECTURERS

James Johnson Durrett, M.S., Phar.G., M.D., *Professorial Lecturer on Drug Control Problems*  
Carson Peter Frailey, Phar.D., *Professorial Lecturer on Industrial Pharmacy*  
Warren Fales Draper, A.B., M.D., *Professorial Lecturer on Public Health*  
Frederick John Cullen, Phar.G., M.D., *Professorial Lecturer on Drug Manufacture*

\* The President of the University, the Dean of the School, the Registrar of the University, the Director of Admissions of the University, Professors, Adjunct Professors, Associate Professors, Assistant Professors, and Instructors constitute the Faculty.  
‡ On leave of absence 1946-47.

James Albert Horton, LL.B., *Professorial Lecturer on Drug Trade Regulations*

John Christian Krantz, Jr., Ph.D., *Professorial Lecturer on Pharmaceutical Research*

Justin Lawrence Powers, Ph.D., *Professorial Lecturer on Official Drug Standards*

George Clemens Ruhland, M.D., *Professorial Lecturer on Hygiene and Sanitation*

Robert Lee Swain, Ph.D., LL.B., *Professorial Lecturer on Contemporary Pharmacy*

George Potter Larrick, *Professorial Lecturer on Drug Control*

COMMITTEES \*

ADVISORY COMMITTEE

Howard Bradbury

Augustus Carrier Taylor

THE DEAN'S COUNCIL†

Charles Watson Bliven

Ira Bowers Hansen

Charles Rudolph Naeser

COMMITTEE ON SCHOLARSHIP

Samuel Nathaniel Wrenn, *Chairman*

Lawson Edwin Yocum

GENERAL INFORMATION

INTRODUCTORY

In 1867 the foundation for the National College of Pharmacy was laid by the Apothecaries' Association of the District of Columbia. The College was opened in 1872 and continued until 1906, when it became affiliated with The George Washington University.

The School of Pharmacy is accredited by the American Council on Pharmaceutical Education.

The School of Pharmacy is a member of the American Association of Colleges of Pharmacy.

Washington offers many opportunities for the study of pharmacy. Not only are the facilities of government laboratories and libraries open to the student, but the School of Pharmacy is located only a few blocks from the American Institute of Pharmacy building, in which has been established a pharmaceutical museum and library, and research laboratories which have brought to Washington the outstanding men of the profession.

\* The President of the University and the Dean of the School of Pharmacy are members ex officio of all committees.

† Elected by the Faculty.

## REGULATIONS

*Students in the School of Pharmacy are subject to and are expected to familiarize themselves with the regulations concerning ADMISSION, REGISTRATION, FEES AND FINANCES as stated on pages 10-23, and the University regulations stated on pages 35-41.*

## AMOUNT OF WORK

Normal work for any year is that outlined under the head of "Curriculum Requirements", below. A student who wishes to take more than the normal amount of work may do so only with the permission of the Committee on Scholarship, the members of which are guided in their decision by his scholastic record and the extent to which he is employed. A student on probation is limited in the amount of work he may carry.

## ATTENDANCE

Except by special permission of the instructor, credit will not be given for any course if absences, including both lecture and laboratory, exceed in number for each term the hours of credit for the term.

Absence consists of being away from a lecture or a laboratory, entering after the lecture or laboratory has begun, or leaving before either is dismissed.

## EXAMINATIONS BEFORE STATE BOARDS OF PHARMACY

To be eligible for examination before most state boards of pharmacy the applicant is required to present satisfactory evidence of college graduation and in addition must have had from one to four years of practical experience in a pharmacy where prescriptions are compounded. The student is not encouraged to undertake professional work while attempting a full course of study. A student who maintains a quality-point index of 2.00 or higher, may be granted permission by the Dean to acquire a limited amount of this professional experience by working in a pharmacy while carrying a full schedule. A student who falls below a quality-point index of 2.00 will be required to reduce his academic load, or to limit his professional-experience time to less than twenty-four hours a week.

## THE DEGREE OF BACHELOR OF SCIENCE IN PHARMACY

Upon the satisfactory completion of the requirements of the School of Pharmacy, the degree of Bachelor of Science in Pharmacy is conferred.

## REQUIREMENTS FOR THE DEGREE

## SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 35 and 36.



In order to graduate, a student must have a general quality-point index of at least 2.00. In addition, he must have a quality-point index of at least 2.50 in all pharmacy courses.

*Probation.*—A student must maintain a quality-point index of at least 2.00, or be placed on probation where he will remain as long as he fails to attain this index.

*Suspension.*—A student who has a quality-point index below 1.00 or who is placed on probation for a third term, whether successive or after an interval, will be suspended. A student who receives a grade of *E* or *F* in two courses in any one term will be suspended.

A student suspended for poor scholarship may apply for readmission after an interval of a calendar year. He must then submit evidence to the Dean of the School of Pharmacy that during his absence from the University he has so conducted himself as to indicate that he will profit by readmission. A student suspended twice for poor scholarship will not be readmitted.

The foregoing scholarship rules are applied to a student with a limited schedule only when he has undertaken a minimum of fifteen credit hours.

### CURRICULUM

The laboratory method of teaching is used. Recitation classes are held in connection with each course in order to provide systematic drill in the subjects.

The curriculum requirements include at least 126 credit hours. The following curricula lead to the degree of Bachelor of Science in Pharmacy.

#### Freshman and Sophomore Years

Courses	Did. hrs.	Lab. hrs.	Credit hrs.	Clock hrs.
Courses in the Junior College (see page 57).....	774	1062	65	1836

## Junior Year: Fall Term

Courses	Did. hrs.	Lab. hrs.	Credit hrs.	Clock hrs.
Chemistry 151.....	54	54	4	108
Economics 1.....	54	.....	3	54
Pharmacy 105.....	36	.....	2	36
Pharmacy 109.....	36	54	3	90
Physiology 115.....	54	.....	3	54
Physiology 117.....	.....	54	1	54
Total.....	234	162	16	396

## Junior Year: Winter Term

Bacteriology 112.....	54	72	4	126
Chemistry 152.....	54	54	4	108
Pharmacy 102.....	36	108	4	144
Pharmacy 106.....	36	.....	2	36
Pharmacy 110.....	36	54	3	90
Total.....	216	288	17	504

## Senior Year: Fall Term

*Biochemistry 221.....	36	.....	2	36
Pharmacy 103.....	36	108	4	144
Pharmacy 107.....	18	.....	1	18
Pharmacy 105.....	54	.....	3	54
Elective .....	72	54	5	126
Total.....	216	162	15	378

\* With permission of the Dean, Biochemistry 221-22 may be replaced by other courses, for purposes of specialization.

## Senior Year: Winter Term

Bacteriology 220.....	36	.....	2	36
*Biochemistry 222.....	36	.....	2	36
Pharmacy 166.....	36	54	3	90
Pharmacy 174.....	36	108	4	144
Pharmacy 176.....	18	.....	1	18
Pharmacy 178.....	36	.....	2	36
Pharmacy 192.....	.....	.....	.....	.....
Elective .....	36	.....	2	36
Total.....	234	162	16	396
Grand total.....	1674	1836	129	3510

## THE DEGREE OF MASTER OF SCIENCE IN PHARMACY

Upon the satisfactory completion of the graduate requirements of the School of Pharmacy, the degree of Master of Science in Pharmacy is conferred.

## DEFINITION OF THE MASTER'S WORK

The study leading to the degree of Master of Science in Pharmacy is a comprehensive survey of one or more of the fields of knowledge embraced by Pharmacy. It is a continuation of the work of the student's undergraduate major and involves a greater acquaintance with scholarly method.

The student must satisfy certain minimum requirements as to previous preparation, residence, ability to read an approved modern foreign (European) language, and courses taken; but these requirements, while essential, are regarded primarily as qualifying measures. The student's knowledge of his field, as demonstrated by his thesis and by the results of his Master's examination (together with such other examinations involving special skills or techniques as may be required), is the basis upon which the Master's degree is conferred. The foreign language requirement may be waived by faculty action in the instance of students whose field of study at the Master's level may not require such preparation.

\* With permission of the Dean, Biochemistry 221-22 may be replaced by other courses, for purposes of specialization.



## REQUIREMENTS FOR THE DEGREE

## RESIDENCE

An academic year of residence is required, i.e., completion of a minimum of thirty credit hours of work including the thesis, which is counted as the equivalent of six credit hours of course work. Summer term work may be counted in residence, but in no case may the period of residence aggregate less than twenty-seven weeks. Not more than twelve credit hours (which must be approved in advance by the Dean of the School of Pharmacy) may be taken in another school or division of this University, and such work may not be counted toward both a degree in that school or division and the Master's degree in the School of Pharmacy.

## AMOUNT OF WORK

A student whose previous preparation in his chosen field has been adequate may complete his requirements, including the thesis, by a minimum of thirty credit hours; others are required to do additional work. First-group courses may not be credited toward the Master's degree. Pharmacy courses numbered below 200 may not be credited toward the Master's degree.

## ADMISSION TO CANDIDACY

In addition to admission requirements stated on page 16, the applicant for admission to candidacy for the Master's degree must be approved by the appropriate representative of the department of Pharmacy and by the Dean.

## SCHOLARSHIP

A student whose scholarship is considered unsatisfactory may be suspended by the Dean upon recommendation of the staff member under whom the student is working.

## THE MASTER'S THESIS

The thesis may be of a research, expository, critical, or creative type. The main purpose of a Master's thesis is to demonstrate the student's ability to make independent use of the information and training acquired through his other disciplines, and to furnish objective evidence of his constructive powers in his chosen field. Registration for the thesis must be no later than the beginning of the final year of preparation, unless the professor in charge of the thesis permits registration at the beginning of the final term. The choice of the thesis subject must be approved by the professor in charge of the student's field and recorded in the Office of the Registrar by the date announced in the University calendar. Reg-

istration for the thesis is ordinarily made on the basis of three credit hours for two successive terms. In exceptional cases, and with the approval of the professor in charge of the thesis, the student may register for the entire six credit hours during a single term. The type-written thesis in its final form must have the approval of the professor in charge of the student's field and must be presented to the Dean by the student not later than the date announced in the University calendar. Requirements regarding the form of the thesis are stated on page 39, and additional information will be supplied by the Dean.

Payment of tuition for the thesis entitles the candidate, during the academic year of registration, to the advice and direction of the member of the faculty under whom the thesis is to be written. In case a thesis is unfinished, an additional successive academic year may be granted without further tuition payment. If the preparation of the thesis extends beyond the two-year period the student must register for it again, and pay tuition on the same basis as for a repeated course.

#### FINAL EXAMINATION

In addition to the course examinations, the candidate must pass a final examination on the thesis and its related fields. This examination may be either written or oral at the discretion of the faculty.

If the thesis is submitted more than three years after the course requirements have been completed, a written examination covering the student's complete program of study will also be required.

## THE SCHOOL OF EDUCATION

### THE FACULTY AND STAFF OF INSTRUCTION\*

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
James Harold Fox, A.M., Ed.D., *Dean of the School of Education*

Henry Grattan Doyle, A.M., *Professor of Romance Languages*  
William Cullen French, Ph.D., *Professor of Education*  
Ruth Harriet Atwell, A.M., *Professor of Physical Education for Women*  
Frank Mark Weida, Ph.D., *Professor of Statistics*  
Mitchell Dreese, Ph.D., *Professor of Educational Psychology*  
Sidney Barlett Hall, A.M., Ed.D., LL.D., *Professor of Education*  
James Harold Fox, A.M., Ed.D., *Professor of Education*  
Thelma Hunt, Ph.D., M.D., *Professor of Psychology*  
Frances Kirkpatrick, A.M., *Professor of Home Economics*  
William Henry Myers, A.M., *Professor of Physical Education for Men*  
Chester Winfield Holmes, Ed.D., *Adjunct Professor of Education*  
Benjamin Franklin Kyker, A.M., *Adjunct Professor of Education*  
Meredith Chester Wilson, B.S., *Adjunct Professor of Education*  
Ruth Coyner Little, Ph.D., *Professorial Lecturer in Education*  
Lindley Hoag Dennis, A.M., Voc.Ed.D., *Professorial Lecturer in Education*  
Ray LaForest Hamon, Ph.D., *Professorial Lecturer in Education*  
Chester Elwood Leese, Ph.D., *Associate Professor of Physiology*  
Helen Bennett Lawrence, A.M., *Associate Professor of Physical Education for Women*  
Burnice Herman Jarman, A.M., Ed.D., *Associate Professor of Education*  
Kathryn Mildred Towne, A.M., *Associate Professor of Home Economics*  
Edwin Wallace Davis, Ph.D., *Associate Professor of Psychology*  
Charles Edward Bish, A.M., Ed.D., *Associate Professor of Education*  
Jenny Emsley Turnbull, A.M., *Assistant Professor of Physical Education for Women*  
Dorothy Helene Veon, A.M., *Assistant Professor of Secretarial Studies*  
Elizabeth Burtner, A.M., *Assistant Professor of Physical Education for Women*  
Margaret Olive Osborn, M.S., *Assistant Professor of Home Economics*  
Virginia Loretta Dennis, A.B., *Assistant Professor of Physical Education for Women*

\* The President of the University, the Dean of the School, the Registrar of the University, the Director of Admissions of the University, Professors, Adjunct Professors, Associate Professors, Assistant Professors, and Instructors constitute the Faculty.



Marjorie Tate, B.S., A.M., *Assistant Professor of Physical Education for Women*

Charles Norval Cofer, Ph.D., *Assistant Professor of Psychology*

Agnes Tweedie Beckwith, A.B., Ed.M., *Lecturer in Education*

LuVerne Crabtree Walker, A.M., *Lecturer in Education*

Madaline Kinter Remmlein, Ph.D., J.D., *Lecturer in Education*

Helen Barton Goodwin, A.M., *Lecturer in Education*

Blake Smith Root, B.S., A.M., *Lecturer in Education*

Glenn Edward Barnett, Ed.D., *Lecturer in Education*

Ruth Ann Wells, B.S., *Associate in Home Economics*

#### CONSULTANTS IN RESEARCH

John Kerr Rose, Ph.D., *Research Associate in Education*

Francis James Brown, Ph.D., *Research Associate in Education*

Leonard August Larson, B.P.E., M.Ed., Ph.D., *Research Associate in Education*

Howard Richmond Anderson, Ph.D., *Research Associate in Education*

#### READING CLINIC

Jane Frost Hilder, *Director of the Clinic, Lecturer in Education*

Marion DeFries Hall, A.M., *Assistant Director*

Mary Hoskins Gatchell, A.M., *Assistant*

#### COMMITTEES\*

##### THE DEAN'S COUNCIL†

1947

Burnice Herman Jarman

Kathryn Mildred Towne

1948

Frank Mark Weida

Ruth Harriet Atwell

1949

Mitchell Dreese

Helen Bennett Lawrence

##### COMMITTEE ON ADMISSION AND ADVANCED STANDING

The Dean of the School, *Chairman*

Harold Griffith Sutton

Frances Kirkpatrick

William Henry Myers

Frank Mark Weida

Burnice Herman Jarman

Ruth Harriet Atwell

##### COMMITTEE ON SCHOLARSHIP

Charles Edward Bish, *Chairman*

William Henry Myers

Helen Bennett Lawrence

Kathryn Mildred Towne

\* The President of the University and the Dean of the School of Education are members ex officio of all committees.

† Elected by the Faculty

## GENERAL INFORMATION

## INTRODUCTORY

It is the purpose of the School of Education to prepare teachers, supervisors, and administrators for the higher ranges of educational service and to offer opportunities to teachers of experience to extend their education. The School includes the departments of Education, Physical Education, and Home Economics. It offers both graduate and undergraduate work. Other departments of the University provide general education and subject-matter courses needed for a well-balanced program of teacher education.

The schedule of courses is arranged to meet the convenience of both full-time and part-time students. By attending evening, Saturday, and summer classes, teachers in the schools of Washington and vicinity may complete all the requirements for a degree without giving up their positions.

In cooperation with the United States Navy, the Department of Home Economics offers a special program in dietetics and related subjects for Navy Nurses. Candidates are selected by the Nursing Corps of the United States Navy.

To help children and adults with reading difficulties, the School of Education operates a diagnostic reading clinic.

## REGULATIONS

*Students in the School of Education are subject to, and are expected to familiarize themselves with, the regulations concerning ADMISSION, REGISTRATION, FEES AND FINANCES stated on pages 10-23, and the University regulations stated on pages 35-41.*

## AMOUNT OF WORK

A normal program of work for an undergraduate student is sixteen or seventeen credit hours. A student with a quality-point index of 3.00 or higher may, with the Dean's permission, take nineteen hours. More than nineteen hours may not be taken except by special permission of the Committee on Scholarship.

For an employed student ten credit hours constitute a normal program. A student with a quality-point index of 3.00 or higher for the preceding term may be permitted by the Dean to take twelve or thirteen credit hours.

For a graduate student twelve credit hours, exclusive of the thesis, constitute a normal program. An employed student may not take more than nine credit hours.

### THE BACHELOR'S DEGREES

Upon the satisfactory completion of the undergraduate requirements of the School of Education, the degree of Bachelor of Arts in Education, Bachelor of Science in Home Economics, or Bachelor of Science in Physical Education is conferred.

The program of work of each student must be approved by a Faculty adviser. Since each student's program of work will be defined by his particular needs, it is important that the student have a clear conception of his major interest in education, and also that he be familiar with the teaching-certificate requirements in the locality in which he expects to teach.

### REQUIREMENTS FOR THE DEGREES

To be recommended for a degree a student must satisfy the admission, residence, scholarship, and curriculum requirements.

#### RESIDENCE

For full details concerning continuous registration, see page 35.

#### SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 35 and 36.

In order to graduate, a student must have a quality-point index of at least 2.00.

*Probation.*—An undergraduate student who fails to maintain a quality-point index of at least 2.00 will be placed on probation. A student remains on probation as long as his quality-point index is below 2.00, or until his probation is removed by the Committee on Scholarship.

*Suspension.*—An undergraduate student who fails to pass (i.e., who receives a grade of *E* or *F*) in half or more than half of his work, based on a minimum of sixteen credit hours, will be suspended.

A student who has been suspended for poor scholarship may within ten days appeal his case to the Committee on Scholarship through the Dean. If the case appears to be remediable and the student appears likely to improve in his scholarship thereafter, the Committee may readmit him on probation. A student who has been denied readmission on probation may petition the Committee on Scholarship through the Dean for readmission after the lapse of a calendar year. A student who has been suspended twice will not be readmitted.

#### CURRICULUM REQUIREMENTS

In any of the following curricula at least thirty credit hours must consist of courses numbered above 100.



## Bachelor of Arts in Education

Programs of study depend upon the teaching certificate desired and must be approved by a Faculty adviser. The minimum degree requirement of 126 credit hours, in addition to required Physical Education, must include prescribed general education courses (see D-1 curriculum in the Junior College, p. 57), teaching field preparation, and professional courses. Normally, all of the required general education courses and part of the teaching-field preparation are completed in the Junior College. The remaining requirements to be completed in the School of Education must include:

	Credit Hours
Learning and Teaching (Education 109-10).....	6
Society and the School (Education 121-22).....	3
Common Teaching Skills (Education 131).....	3 to 6
Special Methods Courses.....	6
Observation and Practice Teaching (Education 133-34).....	
Teaching field courses which combined with those completed in the Junior College total.....	42 to 57

In accordance with the foregoing general pattern of work for the degree, programs of study are available for candidates preparing to teach in the following fields: English, speech, social studies, history, geography, general science, biology, chemistry, physics, mathematics, French, German, Latin, Spanish, business education, art, and elementary school. Additional information concerning these programs may be obtained by writing to the Dean.

*Normal School Students.*—Students from approved normal schools are granted such advanced standing as their credentials warrant. Their unfinished requirements are determined by the Dean.

## Bachelor of Science in Home Economics

The curriculum leading to this degree is designed to prepare young women for the important responsibility of home-making. The program can be adapted, however, to meet special requirements. Each student will plan her work with the assistance of a Faculty adviser in the Department of Home Economics.

## GENERAL HOME-MAKING COURSE

JUNIOR YEAR		Credit Hours	SENIOR YEAR		Credit Hours
Home Economics 53.....	3		Home Economics 152.....	3	
Home Economics 72.....	3		Home Economics 171.....	3	
Home Economics 102.....	3		Home Economics 181.....	3	
Home Economics 123.....	3		Home Economics 192.....	3	
Physiology 115.....	3		Home Economics 197-98.....	6	
Electives.....	15		Psychology 125.....	3	
			Electives.....	9	
Total.....	30		Total.....	30	

### Bachelor of Science in Physical Education for Men

#### DUAL-MAJOR TEACHER'S COURSE

The minimum requirements for this degree are twenty-three credit hours in physical education, nineteen credit hours in education, eighteen credit hours in a subject-matter group, and six credit hours of electives, distributed as follows:

JUNIOR YEAR		Credit Hours	SENIOR YEAR		Credit Hours
Education 121-22.....	6		Education 131.....	3	
Education electives.....	4		Education 133-34.....	6	
Physical Education 102.....	2		Physical Education 131.....	3	
Physical Education 103.....	2		Physical Education electives.....	8	
Physical Education 107.....	2		Electives.....	13	
Physical Education 113-14.....	4				
Physical Education 118.....	2		Total.....	33	
Electives.....	11				
Total.....	33				

#### SINGLE-MAJOR TEACHER'S COURSE

The minimum requirements for this degree are thirty-one credit hours in physical education, nineteen credit hours in education, and sixteen credit hours of electives, distributed as follows:

JUNIOR YEAR		Credit Hours	SENIOR YEAR		Credit Hours
Education 121-22.....	6		Education 131.....	3	
Education electives.....	4		Education 133-34.....	6	
Physical Education 102.....	2		Physical Education 109.....	2	
Physical Education 103.....	2		Physical Education 125.....	3	
Physical Education 107.....	2		Physical Education 131.....	3	
Physical Education 113-14.....	4		Physical Education 146.....	3	
Physical Education 115-16.....	4		Electives.....	13	
Physical Education 117-18.....	4				
Physical Education 138.....	2		Total.....	33	
Electives.....	3				
Total.....	33				

### Bachelor of Science in Physical Education for Women

The minimum requirements for this degree are sixty-six credit hours, distributed as follows:

JUNIOR YEAR		Credit Hours	SENIOR YEAR		Credit Hours
Education 121-22.....	6		Education 133-34.....	6	
Physical Education 102.....	2		Physiology 115.....	3	
Physical Education 103.....	2		Physical Education 119-20.....	4	
Physical Education 105-6.....	6		Physical Education 121.....	3	
Physical Education 111-12.....	4		Physical Education 122.....	3	
Physical Education 132, 146....	4		Physical Education 130.....	3	
Subject-matter field or electives...	9		Physical Education 131, 140....	5	
			Subject-matter field or electives...	6	
Total.....	33		Total.....	33	

The student desiring to prepare herself to teach another subject in addition to physical education for women may do so by choosing her elective hours from one subject-matter field with the advice of the Dean of the School of Education. Relevant work completed in the Junior College may be counted in this subject-matter field.

### THE DEGREE OF MASTER OF ARTS IN EDUCATION

Upon the satisfactory completion of the graduate requirements of the School of Education, the degree of Master of Arts in Education is conferred. This is a professional degree, designed to prepare the student for some particular type of educational service. The program of studies leading to the degree will be selected by the candidate and his adviser from the various related departments of the University to give the student an adequate background in his chosen vocational field. For the prospective high school or junior high school teacher this will ordinarily include study in the subject which he is planning to teach as well as in the field of education.

In accordance with the foregoing general pattern of work, graduate programs of study are available in early childhood education, elementary education in the intermediate grades, elementary school administration, guidance, agricultural education, adult education, and the various teaching fields in secondary education. Programs of work for teachers-in-service are differentiated from those for students without teaching experience. Additional information concerning these programs may be obtained by writing to the Dean.

#### ADMISSION TO CANDIDACY

In addition to admission requirements stated on pages 16 and 17, the applicant for admission to candidacy for the Master's degree must (1) have a general undergraduate quality-point index of at least 2.50, (2) have demonstrated a genuine interest in teaching, and (3) be in possession of personality traits that give promise of better-than-average success as a teacher. Those desiring to prepare for positions in guidance or administration must have had at least two years of successful teaching experience. Candidates who have had no professional courses must satisfactorily complete 12 credit hours of undergraduate professional courses, including Observation and Practice Teaching, in addition to graduate course requirements.

#### ADVANCED STANDING

Graduate work completed in other accredited institutions of learning may be credited toward the Master's degree, but a minimum of thirty credit hours must be completed at The George Washington University.



Advanced courses completed in excess of the requirements, for the Bachelor's degree in this University may be credited toward the Master's degree to the extent of twelve credit hours, provided the work fits in with the student's plan of specialization and is approved in writing by the Dean before being undertaken.

Work completed more than three years prior to registration for the Master's degree at this University will be credited only after the candidate has satisfied the department concerned that he is proficient in the subject matter of the courses offered for credit. Such proficiency may be determined by examination or by other means.

#### REQUIREMENTS FOR THE DEGREE

##### RESIDENCE

A candidate must pass in resident study at this University at least two terms, or one term and two six-week summer sessions, or four six-week summer sessions.

##### PLANS OF STUDY

Two plans of study lead to the degree of Master of Arts. *Plan 1* requires a minimum of 30 hours of graduate credit, including a thesis carrying 6 hours of graduate credit. *Plan 2* requires a minimum of 33 hours of graduate credit, including a course in *Educational Research Methods and Procedures* carrying 3 hours of graduate credit.

##### SELECTION OF COURSES

Programs of study under *Plan 1* must include a minimum of 12 credit hours from third group courses in addition to the thesis. Under *Plan 2* a minimum of 18 credit hours, in addition to the course in *Educational Research Methods and Procedures*, must be from third group courses.

Programs of study must include a minimum of 12 credit hours from courses offered in the Department of Education.

When programs of study include additional academic preparation in one or more teaching fields, undergraduate and graduate courses combined must be at least equivalent to the undergraduate requirements of the Bachelor of Arts degree in the teaching field concerned.

##### THE THESIS

The thesis required under *Plan 1* must conform to standards prescribed by the Committee on Theses. A statement of these standards may be obtained at the Office of the Dean.

The thesis subject must be approved in writing by the candidate's adviser and recorded in the Office of the Registrar by the date an-

nounced in the University calendar. One typewritten original and three legible and complete carbon copies of the thesis in its final form must be presented to the Dean by the candidate not later than the date announced in the University calendar. Requirements regarding the form of the thesis are stated on page 39, and additional information will be supplied by the Dean.

Payment of tuition for the thesis will entitle the candidate, during the academic year of registration, to the advice and direction of the member of the Faculty under whom the thesis is to be written. In case a thesis is unfinished, an additional successive academic year may be granted without further tuition payment. If the preparation of the thesis extends beyond the two-year period, it must be registered for again, and tuition paid on the same basis as for a repeated course.

#### COMPREHENSIVE EXAMINATION

In addition to the course examinations, the candidate must pass a professional comprehensive examination which shall take into account his area of specialization.

#### FIVE-YEAR PROGRAM

A candidate entering the School of Education from the Junior College (or with equivalent preparation) may choose a three-year program leading to the degrees of Bachelor of Arts and Master of Arts in Education to be conferred simultaneously. The first year of this combined program will be devoted to teaching-field preparation; the work of the second year will include the Bachelor of Arts junior-year professional courses and a maximum of 18 credit hours of graduate courses; that of the third and final year, senior-year undergraduate professional courses and the remaining graduate courses needed for the Master's degree. Observation and Practice Teaching to be elected in the fifth year may not be taken for graduate credit. A quality-point index of at least 2.50 must be attained before beginning the work of the senior year and the program must meet all the requirements of the degrees of Bachelor of Arts and the Master of Arts in Education.

#### THE DEGREE OF DOCTOR OF EDUCATION

The requirements for the degree of Doctor of Education cannot be stated in credit hours, but they consist in general of at least two full years of work beyond the degree of Master of Arts in Education or the equivalent. The programs of study are designed to prepare students for administrative or supervisory positions, the teaching of education in normal schools or colleges, the teaching of an academic subject in schools or colleges, or for specialized types of educational service. The work is

given a practical rather than a theoretical bent, and emphasizes the mastery and application of subject matter, both in the study requirements and in the thesis. Special emphasis is placed upon the professional success of the candidate.

The candidate's program of study largely depends upon his previous educational background and his professional objective. Opportunities are provided for study leading to the following professional objectives: school superintendent, secondary school principal, supervisor, director of guidance, director of curriculum development, professor of education, and specialist in educational research.

#### QUALIFICATIONS OF THE APPLICANT

The candidate for the degree of Doctor of Education must have completed (1) graduate work in fields prerequisite to his objective, equivalent to that required for the degree of Master of Arts in Education in The George Washington University, and (2) at least three years of successful educational experience.

#### ADMISSION TO CANDIDACY

To be admitted to candidacy for the degree the applicant must be accepted by the Faculty of the School of Education on the basis of an examination conducted by a committee appointed by the Dean. This examination will usually include the following: (1) a written examination involving problems related to the applicant's background; (2) a scholastic-aptitude test; (3) an oral examination.

#### CONSULTATIVE COMMITTEE

If the applicant is accepted as a candidate, his consultative committee will counsel the candidate and guide his work.

The consultative committee, in cooperation with the candidate, will (1) determine the candidate's fields of study, in each of which the candidate must pass a written examination at least eight months before he presents himself for the degree; (2) formulate a list of course requirements and of readings that will assist him in preparing for these examinations; and (3) designate the tools of investigation that will be needed by the candidate in the prosecution of his study. These tools may include one or more foreign languages, statistical methods, historical criticism, or any others considered essential by the committee. An examination in the tools designated must be passed by the candidate before he takes his comprehensive examination.

#### THE THESIS

When the candidate has satisfied the requirements of his consultative committee, the committee is dissolved. A member of the faculty, in whose



field the topic of the thesis falls, is then appointed to serve as the candidate's adviser on his thesis and in his field of specialization, and to recommend him to the Dean for the final oral examination when, in his judgment, the candidate's thesis is acceptable.

Not later than the date specified in the University calendar the candidate shall submit to the Dean of the School of Education four copies of his thesis—one typewritten original and three legible and complete carbon copies, on official thesis paper—and also a typewritten summary of the thesis consisting of not more than 2,500 words. Requirements regarding the form of the thesis are stated on page 39, and additional information will be supplied by the Dean.

The successful candidate is required, before receiving his degree, to pay a fee to cover the expense of printing the summary of his thesis.

#### THE FINAL EXAMINATION

At least three weeks before the degree is to be conferred the candidate must pass an oral examination on his thesis and on his field of specialization before a committee of the Faculty appointed by the Dean, supplemented by two experts from outside the University appointed by the President. This examination is open to the public and all are privileged to question the candidate. The Dean, or a member of the Faculty designated by him, will preside at this examination.

## THE SCHOOL OF GOVERNMENT

### THE FACULTY AND STAFF OF INSTRUCTION\*

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*

‡William Crane Johnstone, Jr., Ph.D., *Dean of the School of Government*

Arthur Edward Burns, Ph.D., *Acting Dean of the School of Government*

---

John Donaldson, Ph.D., *Professor of Political Economy*

Richard Norman Owens, Ph.D., C.P.A., *Professor of Accounting and Business Administration*

Elmer Louis Kayser, Ph.D., *Professor of European History*

Warren Reed West, Ph.D., *Professor of Political Science*

Frank Mark Weida, Ph.D., *Professor of Statistics*

Harold Griffith Sutton, M.S., *Professor of Finance*

‡William Crane Johnstone, Jr., Ph.D., *Professor of Political Science*

Ralph Dale Kennedy, Ph.D., *Professor of Accounting and Business Administration*

Wood Gray, Ph.D., *Professor of American History*

Thelma Hunt, Ph.D., M.D., *Professor of Psychology*

John Albert Tillema, Ph.D., LL.M., S.J.D., *Professor of Political Science*

John Withrow Brewer, Ph.D., *Professor of International Law*

Arthur Edward Burns, Ph.D., *Professor of Economics*

James Christopher Corliss, A.M., *Adjunct Professor of Inter-American Economics*

‡Henry Furness Hubbard, Ph.D., *Adjunct Professor of Psychology*

Gerhard Colm, Dr. rer. pol., *Professorial Lecturer in Economics*

Arthur Smithies, LL.B., Ph.D., *Professorial Lecturer in Economics*

Luis Siegfried Quintanilla, L.-ès-L., Diplôme, Ph.D., *Professorial Lecturer in Political Science*

Edward Campion Acheson, Ph.D., *Associate Professor of Finance*

Howard Maxwell Merriman, Ph.D., *Associate Professor of American Diplomatic History*

Donald Stevenson Watson, Ph.D., *Associate Professor of Economics*

Edwin Wallace Davis, Ph.D., *Associate Professor of Psychology*

Dorothy Jeanne Morrow, M.S., *Assistant Professor of Statistics*

\* The President of the University, the Dean and Assistant Dean of the School, the Registrar of the University, the Director of Admissions of the University, Professors, Adjunct Professors, and Associate Professors constitute the Faculty.

‡ On leave of absence 1946-47.

Orton Wells Boyd, A.M., C.P.A., *Lecturer in Business Administration*  
 Arlin Rex Johnson, Ph.D., *Lecturer on Accounting*  
 Solomon Kullback, Ph.D., *Lecturer in Statistics*  
 Robert Carnell Sampson, A.M., *Lecturer on Public Personnel Administration*  
 Jacob Louis Mosak, Ph.D., *Lecturer in Economics*  
 Allen Dailey Manvel, A.B., *Lecturer on Public Administration*

## COMMITTEES\*

## THE DEAN'S COUNCIL†

1947

Ralph Dale Kennedy  
 Richard Norman Owens

1948

John Donaldson  
 Frank Mark Weida

1949

Thelma Hunt  
 Dorothy Jeanne Morrow

## COMMITTEE ON ADMISSION AND ADVANCED STANDING

The Dean of the School, *Chairman*  
 Harold Griffith Sutton, *Secretary*

Ralph Dale Kennedy  
 Donald Stevenson Watson

Arthur Edward Burns  
 Frank Mark Weida

## GENERAL INFORMATION

## INTRODUCTORY

The George Washington University School of Jurisprudence and Diplomacy existed from 1898 to 1913, when it was discontinued as a separate school. The courses were given, however, in Columbian College until September 1928, when training in foreign service and governmental theory and administration was reestablished as a separate branch under the School of Government.

It is the purpose of the School to give the student an understanding of the responsibilities under the Constitution of the United States in the conduct of public office—domestic and foreign. This can be accomplished not through any single course but through a curriculum which correlates social, economic, political, historical, and psychological studies.

The courses in Public Administration train in the theory of and practice in local, state, and national positions. The courses in Foreign Af-

\* The President of the University and the Dean of the School of Government are members of office of all committees.

† Elected by the Faculty.



fairs train the student for the many opportunities offered in the foreign fields to carry out the ideals for which America stands, not only in governmental work but in the much wider field of foreign trade as conducted by private enterprise in all parts of the world. This training fits the student especially to assist American citizens who have occasion to travel or to do business abroad, to understand their reciprocal rights and duties, and to protect them in these rights without infringing upon the rights of others, as well as to collect and report information concerning commercial conditions and opportunities abroad. The student thus gains an insight into international affairs from both the American and the foreign point of view, with a resultant broader understanding of economic and political problems.

#### REGULATIONS

*Students in the School of Government are subject to, and are expected to familiarize themselves with, the regulations concerning ADMISSION, REGISTRATION, FEES AND FINANCES as stated on pages 10-23, and the University regulations stated on pages 35-41.*

#### AMOUNT OF WORK

A full-time student not on probation may take ordinarily not more than seventeen credit hours. A student employed more than twenty-four hours a week, who is not on probation, may take not more than ten credit hours.

A full-time undergraduate student whose quality-point index is 3.50 or higher may take not more than nineteen credit hours. An undergraduate student employed more than twenty-four hours a week, whose quality-point index is 3.50 or higher, may take up to twelve credit hours.

Exceptions to these rules will require the approval of the Dean.

#### ATTENDANCE

The student is held responsible for all the work of the courses in which he is registered, and all absences must be excused by the instructor in charge before provision is made for him to make up the work missed.

#### CLASSIFICATION OF STUDENTS

A student who holds an Associate in Arts degree from the Junior College or the equivalent from another accredited institution, and who has registered his choice of one of the prescribed curricula at the Office of the Registrar, is classed as a *junior*. A student who has completed thirty credit hours in the School of Government is classed as a *senior*. A student who has satisfactorily completed the work for the Bachelor's degree, and who has registered his choice of one of the prescribed fields of study at the Office of the Registrar, is classed as a *master in course*.

#### INDEPENDENT STUDY PLAN

Under the independent study plan a student of demonstrated capacity, with special interest in the subject matter of a course, may be permitted to undertake independent study under the personal direction of an instructor, in accordance with the rules of the division in which the subject falls. Credit under this plan is limited to the specific course-credits as designated in the list of courses of instruction in this CATALOGUE.

#### THE DEGREE OF BACHELOR OF ARTS IN GOVERNMENT

Upon the satisfactory completion of the undergraduate requirements of the School of Government, the degree of Bachelor of Arts in Government, with a designation of the major field of study, is conferred. The major fields are Accounting, Business Administration, Foreign Affairs, and Statistics.

Students who have a special need for integrating courses from several departments or from more than one major field may request approval, by a faculty committee, of a special major program. The same rules and regulations will apply as in the regularly offered majors.

A student who has completed the required Junior College work and thirty hours in the School of Government, with a quality-point index of 2.00 or higher, in any of the undergraduate curricula, may be admitted to the Law School, and upon completing the work of the first year in law with an average of C or higher, may upon recommendation of the Dean of the Law School, be granted the degree of Bachelor of Arts in Government. Students who intend to follow this plan must signify their intention in advance with the Dean of the School of Government and all courses must be approved.

#### REQUIREMENTS FOR THE DEGREE

##### SCHOLARSHIP

The system of grading and of computing scholarship is described in detail on pages 35 and 36.

In order to graduate, a student must have the following: (1) a quality-point index in all of his work of at least 2.00, and (2) a quality-point index of at least 2.50 in his major, normally forty-five to forty-eight credit hours in work of the third and fourth years.

*Probation.*—A student must maintain a quality-point index of at least 2.00, or be placed on probation, where he will remain as long as his quality-point index is below 2.00.

*Suspension.*—A student who has a quality-point index below 1.00 or who is placed on probation for a third term, whether successive or after an interval, will be suspended.

For the purpose of these rules, the summer sessions are considered a term.

A student suspended for poor scholarship may apply for readmission after an interval of a calendar year. He must then submit evidence to the Committee on Admission and Advanced Standing that during his absence from the University he has so conducted himself as to indicate that he will profit by readmission. A student suspended twice for poor scholarship will not be readmitted.

A student with a limited schedule is affected by the foregoing scholarship rules only when he has undertaken fifteen credit hours.

#### CURRICULUM REQUIREMENTS

For recommendation for graduation the School of Government requires, in addition to the appropriate Junior College work (see page 17 and curricula on page 59), a minimum of sixty credit hours during the junior and senior college years, as set forth in one of the following curricula.

	Credit Hours
Econ. 181-82...International Economics .....	6
Geog. 111 or 112...Economic Geography .....	3
Hist. 181-82...Diplomatic History of the United States.....	6
Pol. Sc. 171...International Politics and Organization.....	3
Pol. Sc. 181-82...International Law.....	6
Language .....Advanced Composition and Conversation.....	6
Group Option...(To be selected from one of the following groups).....	18
Electives .....(To be selected with the approval of the adviser).....	12
Total.....	60

#### Group I—Political Relations

*Geography.*—(121-22) Political Geography.

*History.*—(130) Nationalism, (141) Africa and Europe in the Nineteenth and Twentieth Centuries, (142) Asia and the Western World in the Nineteenth and Twentieth Centuries, (144) World Affairs, 1919-1947, (148) The Second World War and Reconstruction.

*Political Science.*—(111-12) The Governments of Europe, (117) Political Theory, (130) Maritime Law, (172) Postwar Problems of International Politics and Organization.

#### Group II—Economic Relations

*Business Administration.*—(185-86) Railroad Transportation, (186) Motor, Air, and Water Transportation.

*Economics.*—(101) Economic Theory, (121-22) Money and Banking, (126) Foreign Exchange and International Finance, (166) Comparative Systems of Economic Reform, (183) Tariffs and Commercial Treaties, (184) The New Foreign Economic Policies, (190) International Economic Reconstruction.



**Geography.**—(111-12) Economic Geography.

**History.**—(147) Economic History of Europe.

**Statistics.**—(100) Intermediate Statistics, (115-16) Principles of Statistical Methods.

### Group III—Area or Regional Interests

**Economics.**—(185-86) Economic History and Problems of South America, (187-88) Economic History and Problems of the Caribbean Area, (191-92) Contemporary Banking, Currency, and Exchange in Latin America.

**Geography.**—(101) Anglo-America, (102) Latin America, (105) Northwest Europe, (106) Mediterranean Area, (107) Eastern and Southern Asia, (108) Southwestern Asia and the Soviet Union.

**History.**—(143) Modern Europe, 1815-1914, (144) Europe since 1914, (149) European Diplomatic History, (151-52) English History, (161-62) Hispanic American Civilization, (165) The United States and Latin America, (167-68) Latin American and Inter-American Problems.

**Political Science.**—(114) The Soviet Union, (175) International Politics in the Western Hemisphere, (176) Current Trends in Latin American Politics and Government, (192) The Near East: Politics and Government, (193) Far Eastern Governments: China, India, Japan, and Colonial Dependencies, (194) Far Eastern Politics: Contemporary International Relations in the Pacific Area.

### Accounting

	Credit Hours
Bus. Adm. 115.....Business Finance.....	3
Bus. Adm. 145.....Cost Accounting.....	3
Bus. Adm. 151-52.....Advanced Accounting.....	6
Bus. Adm. 155.....Analysis of Financial Statements.....	3
Bus. Adm. 165.....Auditing.....	3
Bus. Adm. 182.....Public Utilities.....	6
Econ. 121-22.....Money and Banking.....	9
Pol. Sc. 127, 128, 129.....Commercial Law.....	9
Curriculum Electives. (To be selected from the following group).....	15
Electives .....(To be selected with the approval of the adviser)....	15
<b>Total.....</b>	<b>60</b>

### Curriculum Electives

**Business Administration.**—(101) Business Organization and Combination, (102) Business Management, (128) Insurance, (131) Budgetary Administration, (158) Federal Taxation, (160) Federal Accounting, (171) Marketing.

**Statistics.**—(100) Intermediate Statistics.

### Business Administration

	Credit Hours
Bus. Adm. 101.....Business Organization and Combination.....	3
Bus. Adm. 115.....Business Finance.....	3
Bus. Adm. 118.....Investments.....	3
Bus. Adm. 128.....Insurance.....	6
Bus. Adm. 171-72.....Marketing Principles and Problems.....	3
Bus. Adm. 185.....Railroad Transportation.....	3
Bus. Adm. 186.....Motor, Air, and Water Transportation.....	6
Econ. 121-22.....Money and Banking.....	6
Pol. Sc. 127, 128.....Commercial Law.....	9
Curriculum Electives... (To be selected from the following group).....	15
Electives ..... (To be selected with the approval of the adviser) ..	15
<b>Total.....</b>	<b>60</b>

## Curriculum Electives

*Business Administration.*—(121) Bank Management, (127) Business Forecasting, (145) Cost Accounting, (151-52) Advanced Accounting, (155) Analysis of Financial Statements, (158) Federal Taxation, (172) Marketing Problems, (177-78) Problems of Retailing, (182) Public Utilities.

*Economics.*—(101) Economic Theory.

*Statistics.*—(115-16) Principles of Statistical Methods.

## Statistics

	Credit Hours
Stat. 115-16....Principles of Statistical Methods.....	6
Stat. 117.....Analysis of Variance.....	3
Stat. 118.....Correlation and the Chi-Square Test.....	3
Stat. 155-56....Mathematical Probability.....	6
Stat. 157-58....Mathematical Statistics.....	6
Group Option... (To be selected from one of the following groups).....	24
Electives ..... (To be selected with the approval of the adviser).....	12
Total.....	60

## Group I

*Business Administration.*—(101) Business Organization and Combination, (127) Business Forecasting, (151-52) Advanced Accounting, (182) Public Utilities, (185) Railroad Transportation, (186) Motor, Air, and Water Transportation.

*Economics.*—(101) Economic Theory, (105) Economic Fluctuations, (121-22) Money and Banking, (140) Occupational Trends, (141) Labor Economics, (161-62) Public Finance and Taxation, (181-82) International Economics.

*Statistics.*—To be selected with the approval of the adviser.

## Group II

*Psychology.*—(121) Educational Psychology, (125) Child Psychology, (127) Job Analysis and Job Information, (131) Psychological Tests, (132) Individual Psychological Testing, (191) Experimental Psychology, (192) Problems in Experimental Psychology.

*Statistics.*—To be selected with the approval of the adviser.

## Group III

*Biology.*—(107) Evolution, (127-28) Genetics, (137-38) General Physiology.

*Chemistry.*—(122) Advanced Quantitative Analysis, (156) Qualitative Organic Analysis.

*Mathematics.*—(125) Advanced Algebra, (126) Advanced Analytic Geometry, (132) Differential Equations, (139) Advanced Calculus, (141) Introduction to Infinite Series.

*Physics.*—(143-44) Modern Experimental Physics, (155) Advanced Physical Measurements.

*Statistics.*—To be selected with the approval of the adviser.

## EXAMINATIONS FOR WAIVING CURRICULUM REQUIREMENTS

A student desiring to omit a required course may take such examination as the department prescribes, and, on passing satisfactorily, he may be relieved of the curriculum requirement in that subject and may qualify for registration in an advanced course. Passing of this examination does not entitle the student to any hours of credit toward the degree.

A student desiring to take such examinations should make the request of the Dean and pay the required fee.

The candidate for the Master's degree who is deficient in undergraduate preparation may take a comprehensive examination on his undergraduate major field. Passing of this examination entitles the student to admission without taking specific courses to make up his deficiencies.

#### THE DEGREE OF MASTER OF ARTS IN GOVERNMENT

Upon the satisfactory completion of the graduate requirements of the School of Government, the degree of Master of Arts in Government, with a designation of the major field of study, is conferred. The major fields are Accounting, Business Administration, Business and Government Statistics, Foreign Affairs, Government and Economic Policy, Public Administration, Public Personnel Administration, and Occupational Counseling.

Students who have a special need for integrating courses from two or more of the major fields of concentration for the Master's degree may request approval, by a faculty committee, of a special major program. All rules and regulations for the Master's degree will apply to such special programs.

#### ADMISSION TO CANDIDACY

A student is formally recognized as a candidate for the Master's degree only when his application for candidacy has been approved by the Dean. Application is made on a form obtainable at the Office of the Registrar.

Before being admitted to candidacy for the major in Foreign Affairs the student must show a reading knowledge (certified by the appropriate language department) of at least one modern foreign language, to be approved by the Dean. Examinations in modern foreign languages will be given on the dates specified in the University calendar.

#### REQUIREMENTS FOR THE DEGREE

A minimum of thirty credit hours of work, as outlined in the curricula on pages 131-33, must be completed successfully. Variations from these curricula require the permission of the Dean.

No more than twelve credit hours of work may be taken in another professional school, and work so taken cannot be counted toward degrees in both schools. No part of the minimum requirement may be taken in any other institution.

A second-group course (numbered 101-200), taken either in the undergraduate or graduate years, may be counted toward the Master's degree only when registration for advanced credit has been approved at the



beginning of the course by the Dean and by the officer of instruction, and provided that the student has done such extra work in the course as may be prescribed by the instructor.

Work completed more than three years prior to registration for the Master's degree will be counted only if the candidate successfully passes an examination on the subject matter of the work offered for credit.

In addition to the course examinations, the candidate must pass a comprehensive written examination in his major field. An oral examination on his thesis may also be required.

No work counted toward a Bachelor's degree may be counted toward a Master's degree.

A student working toward the Master's degree and at the same time completing an undergraduate major must have a quality-point index of 2.50 or higher in the courses undertaken as part of his undergraduate-major program.

A student who expects to continue his studies for the degree of Doctor of Philosophy after receiving the Master's degree will be assisted to plan his program so that he can qualify for admission to candidacy for the Doctorate.

#### RESIDENCE

No credit is granted for work done in absentia, i.e., without formal instruction, except for the thesis, which may be completed in absentia with the permission of the department concerned.

#### SCHOLARSHIP

A student whose scholarship is unsatisfactory may be suspended by the Dean. Regarding the system of grading, see pages 35 and 36.

#### CURRICULUM REQUIREMENTS

A normal program includes a minimum of twenty-four credit hours of course work and the thesis (six credit hours), to be selected from the courses listed under the chosen major field, and such other courses as may be necessary. All programs must be approved by the Faculty adviser and the Dean (see requirements for the degree, pages 134-39).

#### Foreign Affairs

Econ. 281.....	Theories of International Economics
Econ. 282.....	The Balance of International Payments
Econ. 283-84.....	Research in International Economics
Econ. 285-86.....	Public and Private Finance in Latin America
Econ. 287-88.....	Economic Problems of Latin America
Econ. 289.....	Problems in International Financial Policy
Econ. 290.....	Problems in International Economic Policy
Econ. 292.....	International Economic Organization

- Hist. 241-42.....Seminar in Modern European History  
 Hist. 281-82.....Seminar in the Diplomatic History of the United States  
 • Pol. Sc. 271.....Seminar: International Political Organization  
 Pol. Sc. 272.....Seminar: Population and World Politics  
 Pol. Sc. 273.....Seminar: International Administration  
 • Pol. Sc. 274.....Seminar: Objectives and Methods of Foreign Policy  
 Pol. Sc. 277.....Latin American Politics and Government  
 • Pol. Sc. 281-82.....Seminar: International Law and Relations  
 Pol. Sc. 293.....Seminar: International Politics in the Pacific Area  
 Pol. Sc. 294.....Seminar: Governments in the Pacific Area  
 • Pol. Sc. 299-300.....Thesis

#### UNDERGRADUATE PREREQUISITE

A Bachelor's degree with a major in Foreign Affairs, or the equivalent, is required. (See "Foreign Affairs", pages 131 and 132.)

#### Government and Economic Policy

- Econ. 201-2.....History and Literature of Economic Thought  
 Econ. 204.....Contemporary Economic Theory  
 • Econ. 206.....Theory of Employment and Income  
 Econ. 225.....Economic Stabilization Policies  
 Econ. 242.....Labor and Social Economics  
 Econ. 244.....Labor Relations  
 • Econ. 261.....Problems of Fiscal Policy  
 • Econ. 265.....Theory of Economic Policy  
 Econ. 270.....Institutional Framework of Economic Policy  
 Econ. 272.....Interest Groups and Economic Policy  
 • Econ. 297-98.....Thesis (School of Government majors)  
 Pol. Sc. 209-10.....Seminar

#### UNDERGRADUATE PREREQUISITE

A Bachelor's degree with a major in Economics and the following courses, or the equivalent, is required.

*Economics.*—(101) Economic Theory, (105) Economic Fluctuations, (121-22) Money and Banking, (161-62) Public Finance and Taxation, (165) Government Control of Economic Activity.

*Political Science.*—(121-22) The Constitution of the United States.

*Statistics.*—(115-16) Principles of Statistical Methods.

(See requirements for admission, page 17.)

#### Public Administration

- Econ. 225.....Economic Stabilization Policies  
 Econ. 244.....Labor Relations  
 Econ. 265.....Theory of Economic Policy  
 Econ. 270.....Institutional Framework of Economic Policy  
 Econ. 272.....Interest Groups and Economic Policy  
 Pol. Sc. 207-8.....Proseminar: Legislative Organization  
 Pol. Sc. 209-10.....Seminar

• Required of all students selecting this major field.

- Pol. Sc. 241.....Personnel Management and General Administration in the Operating Agency
- Pol. Sc. 242.....Functions of a Departmental Personnel Office
- Pol. Sc. 243.....Supervision and Personnel Management
- Pol. Sc. 244.....The Employee and Public Service
- \*Pol. Sc. 251.....Seminar: Problems of Governmental Organization
- \*Pol. Sc. 252.....Seminar: Governmental Budgeting
- \*Pol. Sc. 253.....Seminar: Budgetary Controls of Government Management
- \*Pol. Sc. 255-56.....Seminar: Federal Inter-bureau Relationships
- \*Pol. Sc. 299-300.....Thesis

#### UNDERGRADUATE PREREQUISITE

A Bachelor's degree with a major in Political Science and the following courses, or the equivalent, is required.

- Business Administration*.—(101) Business Organization and Combination.
  - Economics*.—(161-62) Public Finance and Taxation.
  - Political Science*.—(117) Political Theory, (121-22) The Constitution of the United States, (151) Public Administration.
  - Statistics*.—(115-16) Principles of Statistical Methods.
- (See requirements for admission, page 17.)

#### Business and Government Statistics

- \*Statistics 201.....Design of Experiments..... 3
- \*Statistics 202.....Theory of Estimation and Testing Hypotheses 3
- \*Statistics 203-4.....The Theory of Econometrics..... 6
- \*Statistics 299-300.....Thesis ..... 6

Twelve hours to be selected from graduate courses offered in the departments of Business Administration, Economics, Mathematics, Political Science, and Statistics.

#### UNDERGRADUATE PREREQUISITE

A Bachelor's degree with a major in Statistics, or the equivalent, is required. (See "Statistics", page 133.)

#### Accounting

- \*Bus. Adm. 215.....Corporation Financial Problems
- \*Bus. Adm. 251-52.....Seminar in Accounting
- \*Bus. Adm. 260.....Advanced Federal Accounting
- \*Bus. Adm. 268.....Accounting Theory and Problems
- \*Bus. Adm. 291-92.....Seminar in Business Administration
- \*Bus. Adm. 299-300.....Thesis
- \*Pol. Sc. 253.....Seminar: Budgetary Controls of Government Management

#### UNDERGRADUATE PREREQUISITE

A Bachelor's degree with a major in Accounting, or the equivalent, is required. (See "Accounting", page 132.)

\* Required of all students selecting this major field.



## Business Administration

- \*Bus. Adm. 215.....Corporation Financial Problems
- Bus. Adm. 268.....Accounting Theory and Problems
- Bus. Adm. 285-86....Seminar in Transportation
- \*Bus. Adm. 291-92....Seminar in Business Administration
- \*Bus. Adm. 299-300....Thesis
- Pol. Sc. 253.....Seminar: Budgetary Controls of Government Management

## UNDERGRADUATE PREREQUISITE

A Bachelor's degree with a major in Business Administration, or the equivalent, is required. (See "Business Administration", pages 132 and 133.)

## Public Personnel Administration

- Econ. 242.....Labor and Social Economics
- Econ. 244.....Labor Relations
- Pol. Sc. 209-10.....Seminar
- \*Pol. Sc. 241.....Personnel Management and General Administration in the Operating Agency
- \*Pol. Sc. 242.....Functions of a Departmental Personnel Office
- \*Pol. Sc. 243.....Supervision and Personnel Management
- \*Pol. Sc. 244.....The Employee and Public Service
- \*Pol. Sc. 251.....Seminar: Problems of Governmental Organization
- \*Pol. Sc. 255-56.....Seminar: Federal Inter-bureau Relationships
- \*Pol. Sc. 299-300....Thesis
- Psych. 227.....Seminar: Educational and Vocational Guidance
- Psych. 230.....Seminar: Educational and Vocational Guidance
- Psych. 231.....Seminar: Test Construction
- Psych. 232.....Research: Test Construction
- Psych. 255.....Seminar: Techniques of Opinion and Attitude Measurement
- Stat. 297-98.....Reading and Research

NOTE: Courses numbered below 200 may be taken for graduate credit by special permission.

## UNDERGRADUATE PREREQUISITE

A Bachelor's degree with a major in Political Science or Psychology and the following courses, or the equivalent, is required.

*Political Science.*—(121-22) The Constitution of the United States, (151) Public Administration.

*Psychology.*—(131) Psychological Tests, (143-44) Public Personnel Psychology, (151) Social Psychology.

*Statistics.*—(115-16) Principles of Statistical Methods, (118) Correlation and the Chi-Square Test.

(See requirements for admission, page 17.)

## Vocational Counseling

- Econ. 242.....Labor and Social Economics
- Econ. 244.....Labor Relations

\* Required of all students selecting this major field.

- Pol. Sc. 241..... Personnel Management and General Administration in the Operating Agency  
 Pol. Sc. 242..... Functions of a Departmental Personnel Office  
 Pol. Sc. 244..... The Employee and Public Service  
 Pol. Sc. 251..... Seminar: Problems of Governmental Organization  
 Psych. 203-4..... Research in Psychology  
 \*Psych. 227..... Seminar: Educational and Vocational Guidance  
 \*Psych. 230..... Seminar: Educational and Vocational Guidance  
 \*Psych. 231..... Seminar: Test Construction  
 \*Psych. 299-300..... Thesis (In counseling)  
 Stat. 297-98..... Seminar: Reading and Research

NOTE: Courses numbered below 200 may be taken for graduate credit by special permission.

#### UNDERGRADUATE PREREQUISITE

A Bachelor's degree with a major in Psychology or Sociology and the following courses, or the equivalent, is required.

*Business Administration*.—(101) Business Organization and Combination

or

*Political Science*.—(151-52) Public Administration.

*Psychology*.—(116) Abnormal Psychology, (121) Educational Psychology.

#### THE THESIS

The thesis must be registered for not later than the beginning of the final year, unless the professor in charge of the thesis permits registration at the beginning of the final term. The choice of the thesis subject must be approved by the professor in charge and recorded in the Office of the Registrar by the date announced in the University calendar. The typewritten thesis in its final form must have the approval of the professor in charge and must be presented to the Dean by the student not later than the date announced in the University calendar. Requirements in regard to the form of the thesis are stated on page 39, and additional information will be supplied by the Dean.

Payment of tuition for the thesis entitles the candidate, during the academic year of registration, to the advice and direction of the member of the Faculty under whom the thesis is to be written. In case a thesis is unfinished, an additional successive academic year is granted without further tuition payment. If the preparation of the thesis extends beyond the two-year period, it must be registered for again, and tuition paid on the same basis as for a repeated course.

\* Required of all students selecting this major field.

## THE DIVISION OF UNIVERSITY STUDENTS

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*

Elmer Louis Kayser, Ph.D., *Dean of the Division of University Students*

### THE DEAN'S COUNCIL\*

Arthur Edward Burns

Francis Edgar Johnston

Charles Rudolph Naeser

### GENERAL INFORMATION

#### INTRODUCTORY

The Division of University Students was established in 1930. In this Division are registered mature students who wish to undertake University courses either for credit or as auditors but who are not interested in working toward degrees in this University.

#### REGULATIONS

*Students in the Division of University Students are subject to, and are expected to familiarize themselves with, the regulations concerning ADMISSION, REGISTRATION, FEES AND FINANCES stated on pages 10-23; the University regulations stated on pages 35-41; and the regulations concerning PROBATION, SUSPENSION, AND WARNINGS which are the same as those stated on pages 53 and 54 under the Junior College.*

#### TRANSFER TO REGULAR STATUS

A "University student" may be transferred, at his request, to another college or school of the University only upon complying with the regulations of the specific college or school to which he wishes to transfer. The student should familiarize himself with the regulations printed in the University CATALOGUE concerning admission, residence, amount and quality of work. Specifically, he should note that in some cases not more than thirty (30) hours of credit may be transferred from this Division; that at least the last thirty (30) credit hours must be spent in residence in the college or school granting the degree; and that a general quality-point index of 2.00 must be maintained, with an index of 2.50 in the major.

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\* The President of the University and the Dean of the Division of University Students are members ex officio of the council.



## THE DIVISION OF SPECIAL STUDENTS

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
Warren Reed West, Ph.D., *Dean of the Division of Special Students*

### THE DEAN'S COUNCIL\*

Thelma Hunt

Carl Hugo Walther

Fred Salisbury Tupper

### GENERAL INFORMATION

#### INTRODUCTORY

The Division of Special Students was organized in 1944. To this Division may be admitted students who are in the process of qualifying for degree candidacy. Students in this Division are designated "special students".

#### REGULATIONS

*Students in the Division of Special Students are subject to, and are expected to familiarize themselves with, the regulations concerning ADMISSION, REGISTRATION, FEES AND FINANCES stated on pages 10-23, and the University regulations stated on pages 35-41.*

#### SCHOLARSHIP

The system of grading and computing scholarship is described in detail on pages 35 and 36.

*Probation.*—A student must maintain a quality-point index of at least 2.00, or be placed on probation. The case of each student who has a quality-point index between 1.50 and 2.00, however, will be considered individually. A student will remain on probation as long as his quality-point index is below 2.00, or until his probation is removed.

*Suspension.*—A student who has a total quality-point index below 1.50 will be suspended. The case of each student having a total quality-point index between 1.35 and 1.50, however, will be considered individually.

A student who is placed on probation for the third term, whether successive or after an interval, will be suspended.

A student suspended for poor scholarship may apply for readmission after an interval of a calendar year. He must then submit evidence that

\* The President of the University and the Dean of the Division of Special Students are members ex officio of the council.

during his absence from the University he has so conducted himself as to indicate that he will profit by readmission. A student suspended twice for poor scholarship will not be readmitted.

For the purpose of these rules, the summer sessions are considered a term.

The foregoing scholarship rules are applied to a student with a limited schedule only when he has undertaken a minimum of fifteen credit hours.

#### AMOUNT OF WORK

A full-time student not on probation may take ordinarily not more than seventeen credit hours. A student employed more than twenty-four hours a week, who is not on probation, may take not more than ten credit hours.

A full-time undergraduate student whose quality-point index is 3.50 or higher may take not more than nineteen credit hours. An undergraduate student employed more than twenty-four hours a week, whose quality-point index is 3.50 or higher, may take up to twelve credit hours.

Further, in each individual case, the schedule will be reduced when it is deemed advisable.

Exceptions to these rules will require the approval of the Dean.

#### TRANSFER TO REGULAR STATUS

A "special student" may be transferred to another college or school of the University only upon meeting the requirements set in his case when he was admitted to the Division of Special Students and upon complying with the regulations of the specific college or school to which he wishes to transfer. The student should familiarize himself with the regulations printed in the University CATALOGUE concerning admission, residence, amount and quality of work. Specifically, he should note that in some cases not more than thirty (30) hours of credit may be transferred from this Division; that at least the last thirty (30) credit hours must be spent in residence in the college or school granting the degree; and that a general quality-point index of 2.00 must be maintained, with an index of 2.50 in the major.

## THE DIVISION OF EXTENSION

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
Sidney Bartlett Hall, A.M., Ed.D., LL.D., *Director of Extension*

### GENERAL INFORMATION

The Division of Extension was established in 1941 in order to extend the opportunity for the study of accredited University courses to groups of people in Washington, Virginia, West Virginia, and Maryland who are unable to come to the campus, and to provide special cultural and technical courses, not included in the regular University courses of study, which are taught on the campus or elsewhere, in accordance with the convenience of the individuals concerned. Many of these special courses do not carry credit toward degrees.

The credit courses, which may be applied toward degrees, are conducted in accordance with the existing rules and regulations of the University as to content, examinations, hours, and credits.

The calendar of the Division of Extension is not regulated by the calendar for the other divisions of the University. Arrangements for courses may be made at any time by a sufficiently large group.

Special attention is given to the needs of the various departments of the Federal Government for inservice training of employees and for the training of prospective employees.

Courses in methods and subject matter are offered for groups of teachers; Russian, Japanese, and Chinese courses are offered for those interested in languages; courses in modern drama, current American literature, music appreciation, etc., are offered for study groups connected with clubs.

Detailed information may be obtained by consulting the Director of the Division of Extension.



## THE INTER-AMERICAN CENTER

Cloyd Heck Marvin, Ph.D., LL.D., *President of the University*  
George Howland Cox, *Director of the Inter-American Center*

### ADVISORY COMMITTEE

Henry Grattan Doyle, A.M., *Professor of Romance Languages*  
Robert Whitney Bolwell, Ph.D., *Professor of American Literature*  
William Crane Johnstone, Jr., Ph.D., *Professor of Political Science*  
Elmer Louis Kayser, Ph.D., *Professor of European History*  
Alan Thomas Deibert, A.M., *Associate Professor of Romance Languages*  
Myron Law Koenig, Ph.D., *Associate Professor of American History*

Because of its situation in the National Capitol, The George Washington University is able to offer certain types of academic work and to promote and foster conferences, publications, and studies which profit especially by the resources of the Federal Government, the Library of Congress, the Pan American Union, the various embassies and legations, and other institutions located in Washington. Particularly do these advantages apply to work concerning the nations of the Americas. It is intended that the Center shall take advantage of these manifold opportunities, not only by facilitating the offering of regularly constituted courses and special lectures, but also by encouraging directed research and scholarly and informational publications in the broad field of Inter-American relations.

### INTER-AMERICAN CENTER ACTIVITIES

Lecture series on Inter-American problems—for University students; open to the public. (See History 167-68 below.)  
Lecture series on Inter-American affairs for high school students.  
Lecture series for high school teachers—covering points discussed in student series with greater detail.  
Pan American Conference for high school students, January 1947.  
Speaker Service—speakers on Latin American and Inter-American affairs supplied on request.

### COURSES ON INTER-AMERICAN SUBJECTS

#### ECONOMICS

185-86 Economic History and Problems of South America (3-3)  
187-88 Economic History and Problems of the Caribbean Area (3-3)  
190 International Economic Reconstruction (3)

- 191-92 Contemporary Banking, Currency, and Exchange in Latin America (3-3)  
193-94 Proseminar in Hispanic American Civilization and Culture (3-3)  
285-86 Public and Private Finance in Latin America (3-3)  
287-88 Economic Problems of Latin America (3-3)

HISTORY

- 161-62 Hispanic American Civilization (3-3)  
163-64 Pan American Problems (3-3)  
165 United States and Latin America (3)  
167-68 Inter-American Relations (2-2)  
261-62 Hispanic American Historiography (3-3)  
263-64 Seminar in the History of the Americas (3-3)

ROMANCE LANGUAGES

- 1-2 First-year Spanish (3-3)  
5-6 Second-year Spanish (3-3)  
109-10 Spanish Conversation and Composition (3-3)  
125-26 Modern Spanish Literature (3-3)  
129-30 The Spanish American Novel (3-3)  
137-38 Spanish American Literature: South America (3-3)  
139-40 Spanish American Literature: The Caribbean Area (3-3)  
227-28 Seminar in Spanish American Literature (3-3)  
1-2 First-year Portuguese (3-3)  
5-6 Second-year Portuguese (3-3)  
127-28 Portuguese and Brazilian Literature (2-2)

## THE SUMMER SESSIONS

1946

The George Washington University is continuing the accelerated program started in 1942. During the summer the University offers a fifteen-week term equivalent to the fall or winter term of the academic year, and two seven and one-half week sessions which together constitute the equivalent of a full term. Students may enter the Summer Sessions at the beginning of either session.

During the summer of 1946, courses are offered in the Junior College, Columbian College (the senior college), the School of Engineering, the Law School, the School of Education, and the School of Government.

Students in the School of Pharmacy have the opportunity of taking, during the summer, many of their required and elective courses offered in the Junior College and Columbian College curricula.

For a complete statement concerning summer-term work, see the Summer Sessions catalogue and the separate bulletin of the Law School.



COURSES OF INSTRUCTION



## COURSES OF INSTRUCTION

On the following pages of this CATALOGUE, under the alphabetically arranged names of the departments of instruction, are listed the courses of instruction offered by the University in the summer of 1946 and in the academic year 1946-47. The courses as here listed are subject to some slight change. The University reserves the right to withdraw any course announced.

### HOURS OF INSTRUCTION

Courses of instruction are scheduled in the morning, afternoon, and evening. Evening classes are identical with the daytime sections of the corresponding courses, are taught by the same instructors, and carry the same amount of credit. By taking the evening and summer classes and extending the time of study beyond the customary four years, a student who is able to give only part of his time to college work may complete a regular curriculum and obtain a degree.

### EXPLANATION OF COURSE NUMBERS

*An odd number preceding the name of the course indicates that the course is offered in the fall term; an even number, that it is offered in the winter term; and a double number (157-58), that it begins in the fall term and continues in the winter term. The letter "x" following an odd course number (e.g., 21x) indicates that the course, normally offered in the fall term, is given in the winter term. The letter "x" following an even course number (e.g., 22x) indicates that the course, normally offered in the winter term, is given in the fall term.*

In the departments of the School of Medicine, first-year courses are numbered from 101 to 200; second-year courses, from 201 to 300; third-year courses, from 301 to 400; and fourth-year courses, from 401 to 500.

In the Law School, first-year courses are numbered from 101 to 200; second-year courses, from 201 to 300; third-year courses, from 301 to 400; and graduate courses, from 401 to 500.

In all other schools and colleges the following system of numbering is used:

*First-group courses.*—Courses numbered from 1 to 100 are planned for students in the freshman and sophomore years. With the approval of the adviser and the dean, they may also be taken by juniors and seniors. In certain instances, they may be taken by graduate students to make up undergraduate deficiencies or as prerequisite to advanced courses, but they may not be credited toward a higher degree.



*Second-group courses.*—Courses numbered from 101 to 200, are planned for students in the junior and senior years. They may be credited toward higher degrees only when registration for graduate credit has been approved at the beginning of the course by the dean responsible for the graduate work and by the officer of instruction, and when the completion of additional work has been certified by the officer of instruction.

*Third-group courses.*—Courses numbered from 201 to 300 are planned primarily for graduate students. They are open, with the approval of the officer of instruction, to qualified seniors; they are not open to Junior College students or other undergraduates.

#### INDICATION OF THE AMOUNT OF CREDIT

The number of credit hours given for the satisfactory completion of a course is, in most cases, indicated in parentheses after the name of the course. Thus, a year course giving three hours of credit each term is marked (3-3), and a term course giving three hours of credit is marked (3). A credit hour usually consists of the completion of one fifty-minute period of class work or of one laboratory period a week for one term.

A dagger (†) preceding the number of a year course indicates that the course may not be entered in the second term and that credit will not be given until the work of both terms has been completed.

## ANATOMY

Ira Rockwood Telford, Ph.D., *Assistant Professor of Anatomy*  
Paul Calabrisi, A.M., *Assistant Professor of Anatomy*

- |       |  |           |
|-------|--|-----------|
| 101   | <i>Gross Anatomy</i>   | The Staff |
|       | Instruction in osteology, followed by the careful dissection and study of the entire body. Fifteen hours a week. |           |
| 103   | <i>Histology and Embryology</i>  | The Staff |
|       | The histogenesis and microscopic structure of the tissues and organs of the human body. Twelve hours a week.     |           |
| 104   | <i>Neuro-Anatomy</i>   | The Staff |
|       | Fifteen hours a week.  |           |
| 203-4 | <i>Research</i>  | The Staff |
|       | Hours and credits to be arranged.  |           |

## ART

Norris Ingersoll Crandall, M.Arch., *Professor of Art, Executive Officer*  
Donald Chenoweth Kline, B.Arch., *Associate Professor of Art*

### STAFF IN THE CORCORAN SCHOOL OF ART

Richard Lahey, *Professor of Drawing and Painting, Principal*  
Eugen Weisz, *Professor of Drawing and Painting, Vice Principal*  
Edmund Archer, *Professor of Drawing and Painting*  
Aurelius Battaglia, *Professor of Drawing and Painting*  
Heinz Warneke, *Professor of Sculpture and Carving*  
Jessalee Sickman, *Professor of Drawing and Painting*

*The major in art appreciation.*—Prerequisite: Art 11-12 and 71-72. Required: Art 101-2, 121-22, 141-42, 151-52, and 161-62.

*The major in drawing and painting.*—Prerequisite: Art 11-12. Required: Art 121-22, and at least forty-two credit hours of drawing and painting. The classes in drawing and painting are held at the Corcoran School of Art.

*The major in art for prospective teachers of art in high schools.*—The minimum requirements of this curriculum, which leads to the degree of Bachelor of Arts in Education, are stated on page 120.

### APPRECIATION

#### FIRST GROUP

- 11-12 *Art Appreciation* (3-3) Crandall  
An introduction to the appreciation of the fine arts and to the interpretation of the paintings of the old and modern masters. 1946-47 and alternate years, morning. 1947-48 and alternate years, evening.
- 71-72 *Introduction to the Arts in America* (3-3) Kline  
Painting, sculpture, architecture, furniture, music, and folk arts. Morning and evening sections.

#### SECOND GROUP

- 101-2 *The Design of the Home* (3-3) Crandall  
The history and development of the home, and home furnishing in relation to home design. 1946-47 and alternate years, evening. 1947-48 and alternate years, morning.
- 121-22 *World History of Art* (3-3) Kline  
The fine arts from ancient times to the present. 1946-47 and alternate years, morning. 1947-48 and alternate years, evening.
- 141-42 *Interior Decoration* (3-3) Kline  
The selection and use of furniture, wall and floor coverings, draperies, and lighting. 1946-47 and alternate years, evening. 1947-48 and alternate years, morning.



- 143-44 *Folk Arts of America* (3-3) Kline  
Woodcarving, painting, ceramics, glass, furniture, and music. Morning.
- 151-52 *Modern Art* (3-3) Crandall  
The interpretation of the fine arts of the nineteenth and twentieth centuries of Europe and the Americas. 1946-47 and alternate years, evening. 1947-48 and alternate years, morning.
- 161-62 *History of Art Criticism* (3-3) Crandall  
A survey of art criticism from ancient Greece to the present. Admission by permission of the instructor. Evening.

## DRAWING, PAINTING, AND SCULPTURE

- 165-66 *Drawing and Painting—Still Life, Life, and Portrait* (6-6) Lahey, Weisz  
Morning and evening sections.
- 167-68 *Life Drawing and Painting* (6-6) Archer  
Afternoon.
- 173-74 *Antique Drawing* (6-6) Battaglia, Sickman  
Morning, afternoon, and evening sections.
- 175-76 *Composition* (2-2) Weisz  
Criticism one afternoon a week.
- 178 *Out-of-Door Landscape* (3) Lahey  
Offered during April and May only. Afternoon.
- 179-80 *Sculpture* (6-6) Warneke  
Portrait-life modeling and composition in clay, plaster and wood carving. Afternoon and evening sections.
- 183-84 *Design and Commercial Art*  
Credits to be arranged. (Not offered in 1946-47.)
- 185-86 *Advanced Commercial Art*  
Credits to be arranged. (Not offered in 1946-47.)

## BACTERIOLOGY, HYGIENE, AND PREVENTIVE MEDICINE

Leland Wilbur Parr, Ph.D., *Professor of Bacteriology, Executive Officer*  
Ralph Gregory Beachley, M.D., Dr.P.H., *Adjunct Professor of Public Health Practice*

Angus MacIvor Griffin, Ph.D., *Associate Professor of Bacteriology*  
Mary Louise Robbins, Ph.D., *Instructor in Bacteriology*

### SEMINAR LECTURERS

Roscoe Roy Spencer, A.B., M.D., *Professorial Lecturer in Hygiene and Preventive Medicine*

Charles Armstrong, B.S., M.D., Sc.D., *Professorial Lecturer in Preventive Medicine*

Rolla Eugene Dyer, A.B., M.D., LL.D., *Professorial Lecturer in Preventive Medicine*

Royd Ray Sayers, A.M., M.D., *Professorial Lecturer on Industrial Hygiene*

Sara Elizabeth Branham, Ph.D., M.D., Sc.D., *Professorial Lecturer in Preventive Medicine*

Chester Wilson Emmons, Ph.D., *Professorial Lecturer on Medical Mycology*

Willard Hull Wright, D.V.M., Ph.D., *Professorial Lecturer on Medical Zoology*

James Stevens Simmons, M.D., Ph.D., Sc.D., *Professorial Lecturer in Preventive Medicine*

John Roderick Heller, Jr., B.S., M.D., *Professorial Lecturer on Venereal Disease Control*

Herman Ertresvaag Hilleboe, B.S., M.D., M.P.H., *Professorial Lecturer on Tuberculosis Control*

Carl John Lauter, M.S., *Professorial Lecturer on Municipal Sanitation*

Robert Carter Cook, *Professorial Lecturer on Medical Genetics*

### 112 General Bacteriology (4)

Griffin

A study of the fundamentals of bacteriology, including industrial and hygienic applications. Several groups of bacteria, yeasts, and molds are studied in the laboratory. Material fee, \$7.50. Tues., Thurs., and Sat., 9:10 A.M. to 12:00 M.

**209 Bacteriology, Parasitology, and Immunology**

Parr, Griffin

Bacteriological technique study of micro-organisms and parasites related to medical and hygienic problems. Methods of diagnosis are stressed and immunological procedures and theory fully treated. Eighteen hours a week for fourteen weeks.

**210 Immunology and Serology**

Griffin

Prerequisite: Bacteriology 112 or 209. One hour a week.

**220 Fundamentals of Hygiene and Preventive Medicine (2)**

Parr and Staff

An introduction to the study of preventive medicine and hygiene, involving subject matter suitable for the student of medicine who has not yet had clinical training. Two hours a week.

**303-4 Research in Bacteriology**

The Staff

Time and credits to be arranged.

**305-6 Staff Seminar (1-1)**

Parr and Staff

Bi-weekly throughout the year.

**401-2 Public Health Practice**

Beachley

The application of the principles of preventive medicine in health department practice. One hour a week.

**404 Industrial Hygiene (1)**

Sayers

For senior medical students and qualified graduate students. Lecture course dealing with the problems of health maintenance and disease prevention and cure as affected by industry.



## BIOCHEMISTRY

Joseph Hiram Roe, Ph.D., *Professor of Biochemistry, Executive Officer*  
 \*Arnold Kent Balls, Ph.D., *Adjunct Professor of Enzymology*  
 William Henry Sebrell, Jr., M.D., *Professorial Lecturer on Nutrition*  
 Carleton Raymond Treadwell, Ph.D., *Assistant Professor of Biochemistry*  
 Mary Barbara Mills, M.S., *Instructor in Biochemistry*

- |         |  |               |
|---------|--|---------------|
| 113-14  | <b>Biochemistry</b><br>Physiological and clinical chemistry for the first-year medical student. Two lectures and two three hour laboratory periods a week.   | Roe and Staff |
| 221-22  | <b>Biochemistry (2-2 or 4-4)</b><br>A lecture (2-2) and laboratory (2-2) course for nonmedical students. Prerequisite: Chemistry 152. Material fee, \$12 a term. Time to be arranged.  | Treadwell     |
| 224     | <b>Biochemistry of the Enzymes (elective)</b><br>Lecture course dealing with the biochemistry of the enzymes and enzyme reactions. Prerequisite: Biochemistry 113 or 221. (Not offered in 1946-47.)                              |               |
| 225     | <b>Biochemical Preparations</b><br>Material fee, \$10. Time and credits to be arranged.  | The Staff     |
| 226     | <b>Biochemical Laboratory Methods</b><br>Material fee, \$10. Time and credits to be arranged.  | The Staff     |
| 227-28  | <b>Biochemistry Seminar (1-1)</b><br>The current literature in the field of biochemistry, mainly for graduate students, but open to a limited number of specially qualified medical students. Fri., 4:45 P.M.                    | Roe           |
| 229-30  | <b>Research in Biochemistry</b><br>Time and credits to be arranged.  | Roe           |
| 299-300 | <b>Thesis (3-3)</b>  | Roe           |
| 404     | <b>Applied Nutrition (1)</b><br>For senior medical students and graduate students. Lecture course upon dietary requirements, deficiency diseases, and therapeutic diets. Prerequisite: Biochemistry 114 or 222. Tues., 8:00 A.M. | Sebrell       |

\* On leave of absence 1946-47.

## BIOLOGY \*

Paul William Bowman, Ph.D., *Professor of Biology, Executive Officer*

*The major.*—Prerequisite: Biology 1-2, Botany 1 and 2, and Zoology 1-2. The student who majors in biology will be required to demonstrate in the major examination a reasonable knowledge and understanding of the following subjects: classification of plants and animals and their life histories, geology, ecology, evolution, heredity, the physical and cultural development of man, the biological problems of the community and the nation, the historical development of biology, and the great biologists of the past and present. Some of this information he will obtain by taking courses offered in these fields and some by reading and observation under the guidance of his adviser. For further details, see the pamphlet on this subject or consult the adviser.

### FIRST GROUP

- ‡1-2 *Survey in Biology* (3-3) Bowman  
 Systematic study of the plant and animal kingdoms, with emphasis upon the interdependence of living things. Review of work done in evolution, heredity, public health, and conservation. Material fee, \$4.50 a term. Lecture (1 hour)—morning and afternoon sections; laboratory (2 hours)—morning and afternoon sections.  
 Summer term 1946.

### SECOND GROUP

- 107-8 *Evolution* (3-3) Griggs  
 Survey stressing the data which have led to the larger generalizations of the science; the derivation and discussion of theories based largely on these data. Prerequisite: one year of college work in biology, botany, geology, or zoology. Morning and evening sections.
- 115-16 *Principles of Cytology* (3-3) Bowman  
 Study of plant and animal cells based on Sharp's *Introduction to Cytology*, with training in preparation of slides and use of laboratory equipment. Prerequisite: one year of college work in biology, botany, or zoology. Material fee, \$6.00 a term. Evening.
- 127-28 *Genetics* (3-3) Bowman  
 A laboratory course with problems and experiments. Prerequisite: Biology 2, Botany 1, or Zoology 2. Material fee, \$6.00 a term. Morning and evening sections.
- †137-38 *General Physiology* (3-3) Yocum  
 The fundamental physiology of protoplasm as applicable to both animals and plants. Prerequisite: Chemistry 13 and one year of college work in biology, botany, or zoology. (Not offered in 1946-47.)

\* See also departments of Botany and Zoology, pages 150-60 and 285-84.

‡ Excursions into the out-of-doors and visits to museums and other places of biological interest.

- 199-200 *Proseminar: Biology (3-3)* Bowman  
Individually planned and directed work by means of which majors in biology may learn something of those branches not studied in regular courses and may organize and coordinate their knowledge of the field. Time to be arranged.

## THIRD GROUP

- 201-2 *Seminar: Cytology (3-3)* Bowman  
Hours to be arranged. (Not offered in 1946-47.)
- 203-4 *Seminar: Genetics (3-3)* Bowman  
Hours to be arranged. (Not offered in 1946-47.)
- 211-12 *Research in Cytology* Bowman  
Hours and credits to be arranged.
- 213-14 *Research in Genetics* Bowman  
Hours and credits to be arranged.
- 299-300 *Thesis (3-3)* Bowman



## BOTANY\*

Robert Fiske Griggs, Ph.D., *Professor of Botany, Executive Officer*

Lawson Edwin Yocum, Ph.D., *Professor of Botany*

William Webster Diehl, Ph.D., *Adjunct Professor of Mycology*

*Minimum requirements for the major.*—Twenty-four credit hours of botany beyond the introductory courses, with collaterals as recommended in conference.

### FIRST GROUP

- 1 *Structure and Functions of the Flowering Plant*†§ (3) Yocum  
The typical plant as a working mechanism, with the emphasis on the general biological significance of plant physiology. Material fee, \$4.50. Lecture (2 hours)—morning, afternoon, and evening sections; laboratory (2 hours)—morning, afternoon, and evening sections.  
Summer term 1946.
- 2 *Survey of the Plant Kingdom*§ (3) Yocum  
Study of the different kinds of plants, with emphasis on the evolution of the plant kingdom; practice in identifying flowering plants. Material fee, \$4.50. Lecture (2 hours)—morning, afternoon, and evening sections; laboratory (2 hours)—morning, afternoon, and evening sections.  
Summer term 1946.
- 5 *Field Botany*§ (6) Griggs  
Field trips to neighboring localities of botanical interest, with classroom study. (Not offered in 1946.)
- 35 *Plant Growth* (3) Yocum  
Plant structure and physiology with special emphasis on the practical growing of plants. Prerequisite: Botany 1 or the equivalent. Lecture (4 hours), laboratory (4 hours).  
Summer term 1946.

### SECOND GROUP§

- 121 *Grasses* (3) Griggs  
The taxonomy, morphology, phylogeny, and economics of the Poaceae; the making of a collection; and the determination of a series of representative grasses not available in the vicinity. Text: Hitchcock, *Manual of Grasses*. 1947-48 and alternate years, evening.
- 122 *Higher Monocots* (3) Griggs  
Survey of Arales, Palmales, Liliales, Armaryllidales, Marantales, Orchidales; study of flower morphology and evolutionary tendencies indicated; determination of a series of representative species. 1947-48 and alternate years, evening.

\* See also the departments of Biology and Zoology, pages 157-58 and 283-84.

† Before completing registration for Botany 1, each student must obtain from the representative of the Department an assignment to a laboratory section.

§ Botany 1 and 2 are prerequisite to all other courses in Botany.

- 123-24 *Dicots* (3-3) Griggs  
Survey of selected dicotyledonous orders, the selection varying from year to year; practice in naming unknowns. Text: Pool, *Flowers and Flowering Plants*. 1946-47 and alternate years, evening.
- 131-32 *Mycology* (3-3) Diehl  
1946-47 and alternate years, evening.
- 133-34 *Plant Pathology* (3-3) Diehl  
Material fee, \$6.00 a term. (Not offered in 1946-47.)
- 135-36 *Plant Physiology* (3-3) Yocum  
Fall term: mineral and water relations of plants; winter term: organic syntheses and growth. Prerequisite: Chemistry 11-12. Material fee, \$6.00 a term. 1947-48 and alternate years, evening.
- 141-42 *Plant Ecology* (3-3) Griggs  
1947-48 and alternate years, evening.
- 143 *Plant Distribution* (3) Griggs  
Plant distribution, especially in the United States and Canada; biological relationships of eastern America with eastern Asia and of lands in the Southern Hemisphere, and their bearing on biological and geological history. 1946-47 and alternate years, evening.
- 144 *Vegetation of the United States* (3) Griggs  
Seminar on the areas and characteristics of the principal types of vegetation in the United States. 1946-47 and alternate years, evening.

## THIRD GROUP

- 221-22 *Seminar: Taxonomy* (3-3) Griggs  
(Not offered in 1946-47.)
- 235-36 *Seminar: Physiology* (3-3) ● Yocum  
Subject for 1946-47: Growth regulators of plants. Evening.
- 241-42 *Seminar: Ecology* (3-3) Griggs  
(Not offered in 1946-47.)
- 251-52 *Seminar* (3-3) The Staff  
Discussions of current advances in plant science—partly by the staff and advanced students, partly by authorities invited from neighboring laboratories. (Not offered in 1946-47.)
- 261-62 *Research* The Staff  
Time and credits to be arranged.
- 299-300 *Thesis* (3-3) The Staff

## BUSINESS ADMINISTRATION

Richard Norman Owens, Ph.D., C.P.A., *Professor of Accounting and Business Administration*

Harold Griffith Sutton, M.S., *Professor of Finance*

Ralph Dale Kennedy, Ph.D., *Professor of Accounting and Business Administration, Executive Officer*

Orton Wells Boyd, A.M., C.P.A., *Lecturer in Business Administration*

Arlin Rex Johnson, Ph.D., *Lecturer on Accounting*

Harry Meredith Kurth, B.S., *Lecturer on Accounting*

Herbert Webster Johnson, Ph.D., *Lecturer on Accounting*

Edwin J. B. Lewis, M.B.A., *Lecturer on Accounting*

Francis Bernard Ward, B.S., C.P.A., *Lecturer on Accounting*

Demetrios Theodore, Ph.D., *Lecturer in Business Administration*

James Carlton Dockeray, Ph.D., *Lecturer in Business Administration*

*Minimum requirements for the major.*—See pages 130-31, 132-33.

### FIRST GROUP

#### 51-52 *Introductory Accounting* (3-3) Kennedy and Staff

Rules of debit and credit, underlying principles of accounting records, simple partnership and corporation problems, and the preparation of financial statements. Morning and evening sections.

Business Administration 51x—same as Business Administration 51, but offered winter term. Morning and evening sections.

Business Administration 52x—same as Business Administration 52, but offered fall term. Prerequisite: Business Administration 51, or the approval of the instructor. Morning and evening sections.

Summer term 1946.

### SECOND GROUP

#### 101 *Business Organization and Combination* (3) Owens

Simple and interrelated forms of business enterprise and their control by government. Evening.

Summer term 1946.

#### 102 *Business Management* (3) Owens

Organization and management of a business with particular reference to a manufacturing concern. Evening.

#### 115 *Business Finance* (3)

Basic principles involved in the financial policies of business enterprises. Prerequisite: Business Administration 51-52; Economics 1-2.

Fall term—morning; winter term—evening.

Summer term 1946.



- 118 *Investments* (3)  
Analysis of factors of investment credit with application to different types of investments; proper selection of investments for various classes of investors; regulation. Prerequisite: Business Administration 115. Morning.
- 119 *Real Estate* (3) Dockeray  
Fundamentals of real estate practice; leasing and property management; valuation, financing, and taxation. Evening.
- 121 *Bank Management* (3) Sutton  
Analysis of the lending and investing policies which under various business conditions are best adapted to efficient bank management. Prerequisite: Economics 121-23. (Not offered in 1946-47.)
- 127 *Business Forecasting* (3)  
Forces and factors underlying fluctuations of business activity and methods of forecasting such fluctuations. Prerequisite: Economics 1-2. (Not offered in 1946-47.)
- 128 *Insurance* (3) Owens  
A general course in underlying principles of property, life, marine, and casualty insurance, and the function of insurance in the economic life of a business or individual. Prerequisite: Economics 1-2. Evening. Summer term 1946.
- 131 *Budgetary Administration* (3)  
Private business and government budgeting. (Not offered in 1946-47.)
- 145 *Cost Accounting* (3) Boyd  
Job order and process systems of cost findings; interrelation of the cost records and the general accounts; standard costs; distribution costs. Prerequisite: Business Administration 51-52. Evening. Summer term 1946.
- 151-52 *Advanced Accounting* (3-3) Owens  
Corporations and partnerships, valuation, actuarial science, estates, receiverships and reorganizations, consolidated statements, and other topics. Prerequisite: Business Administration 51-52. Morning and evening sections.
- 155 *Analysis of Financial Statements* (3) Kennedy  
Technique of analyzing financial statements for the guidance of operating executives, directors, stockholders, and creditors; valuation of balance sheet items; determination and interpretation of ratios. Prerequisite: Business Administration 51-52. Fall term—morning; winter term—evening. Summer term 1946.
- 158 *Federal Taxation* (3) Boyd  
Tax problems which confront business enterprise: income, excess profits, capital stock, pay roll, and excise taxes. Prerequisite: Business Administration 151. Evening.

**160 Federal Accounting (3) Lewis**

Accounting problems of federal government. Appropriation accounts; encumbrances; fund accounting. Prerequisite: Business Administration 151-52. Evening.

**165 Auditing (3) Owens**

Duties and responsibilities of the auditor; principles and procedures in making audits; arrangement of working papers and the preparation of reports. Prerequisite: Business Administration 151-52. Evening.

Summer term 1946.

**171 Marketing (3)**

A survey of marketing, giving particular attention to consumption, retailing, wholesaling, and sales management; the entire marketing structure and its relation to the total economy. Prerequisite: Economics 1-2. Morning.

**172 Marketing Problems (3)**

Marketing principles applied to specific distribution policy and operating problems of retailers, wholesalers, and manufacturers handling consumers' and industrial goods. Prerequisite: Business Administration 171. Morning.

**182 Public Utilities (3)**

Kennedy

Public utility characteristics, organization, management, financing, combinations, and accounting; regulation, valuation, and rate-making are stressed. Prerequisite: Economics 1-2. Morning.

**185 Railroad Transportation (3)**

Kennedy

Railroad history, organization, regulations, rate-making theory and practice, accounting, securities, and consolidation. Work of Interstate Commerce Commission stressed. Prerequisite: Economics 1-2. Evening.

Summer term 1946.

**186 Motor, Air, and Water Transportation (3) Kennedy**

History, organization, economics, regulations, and rates of motor, air, and water carriers; coordination of transportation. Prerequisite: Economics 1-2. Evening.

**191-92 Proseminar: Problems in Retailing (3-3) A. Johnson**

Principles and problems in retail merchandising, including markup, inventory valuation, and expense control; also, service and personnel problems. Admission by permission of the instructor. Evening.

**THIRD GROUP****215 Corporation Financial Problems (3)**

Kennedy

Financial practice in promotion, consolidations, and mergers, capital structure adjustments, and reorganizations. Admission by permission of the instructor. (Not offered in 1946-47.)

**251-52 Seminar in Accounting (3-3)**

Owens

Research in accounting problems. Admission by permission of the instructor. (Not offered in 1946-47.)

- 260 *Advanced Federal Accounting* (3) Kurth  
Advanced principles and practices in federal accounting relationship to general policy and administration. (Not offered in 1946-47.)
- 268 *Accounting Theory and Problems* (3) Owens  
The solution of advanced problems and a discussion of the principles involved. Prerequisite: Business Administration 151-52. (Not offered in 1946-47.)
- 285-86 *Seminar in Transportation* (3-3)\* Kennedy  
Admission by permission of the instructor. (Not offered in 1946-47.)
- 291-92 *Seminar in Business Administration* (3-3) Kennedy  
Admission by permission of the instructor. Evening.
- 299-300 *Thesis* (3-3) The Staff



## CHEMISTRY

Colin Mackenzie Mackall, Ph.D., *Professor of Chemistry*  
 Benjamin Douglass Van Evera, Ph.D., *Professor of Chemistry, Executive Officer*  
 James Irvin Hoffman, Ph.D., *Professorial Lecturer in Chemistry*  
 Stephan Brunauer, Ph.D., *Professorial Lecturer in Chemistry*  
 Samuel Nathaniel Wrenn, Ph.D., *Associate Professor of Chemistry*  
 Charles Rudolph Naeser, Ph.D., *Associate Professor of Chemistry*  
 Florence Everett Hooper, Ph.D., *Assistant Professor of Chemistry*  
 Robert Corbin Vincent, Ph.D., *Assistant Professor of Chemistry*  
 Reuben Esselstyn Wood, Ph.D., *Assistant Professor of Chemistry*  
 Rex McLean Guest, Ph.D., *Instructor in Chemistry*

*The Major*—Prerequisite: Chemistry 11-12, 21, and 22; Mathematics 19 and 20; Physics 5, 6, 7, and 8. Required: Chemistry 111-12, 122, 151-52, and 135 or 155 (two credit hours). The work of the junior and senior years must be approved by the Department. The German language is strongly recommended for all majors, and is essential for all students doing graduate work.

*Requirements for the Master's degree*.—In addition to the requirements for the Bachelor's degree: Chemistry 131-32, 211-12, 251-52, 299-300, and the program must include at least four credit hours of laboratory courses. A reading-knowledge examination in French or German (German preferred) must be passed before the second half of the work is started.

*Registration*.—Before completing registration for courses in which there are laboratory sections, each student must obtain from the representative of the Department an assignment to a laboratory section.

### FIRST GROUP

#### †11-12 *General Chemistry* (4-4) Van Evera, Naeser, Hooper

Chemistry 11-12 is an elementary course in General Chemistry. Students who have credit for high school chemistry may enter Chemistry 12 or 12x only after passing a qualifying examination. (See the University calendar for the date of the qualifying examination.) Prerequisite: One year of high school algebra. Laboratory fee,\* \$12 a term. Lecture (2 hours)—morning and evening sections; laboratory (5 hours), recitation (1 hour)—morning, afternoon, and evening sections.

Chemistry 11x, same as Chemistry 11, but offered winter term. Lecture—morning and evening sections; laboratory and recitation—afternoon and evening sections.

Chemistry 12x—same as Chemistry 12, but offered fall term. Lecture—morning and evening sections; laboratory and recitation—afternoon and evening sections.

Summer term 1946.

\*The laboratory fee covers both material and equipment, and no breakage deposit is required. A fee of \$2 is charged any student who fails to check out of the laboratory by the time set by the instructor. Students breaking an excessive amount of equipment will be required to pay an additional fee.

**21 Qualitative Inorganic Analysis (4)**

Guest

Theoretical and practical study of methods of separating and identifying the more common cations and anions. Prerequisite: Chemistry 12. Laboratory fee,\* \$12 a term. Lecture (2 hours)—morning and evening sections; laboratory (6 hours)—afternoon and evening sections.

Chemistry 21x—same as Chemistry 21, but offered winter term. Lecture—morning and evening sections; laboratory—afternoon and evening sections.

Summer term 1946.

**22 Quantitative Inorganic Analysis (4)**

Guest

The principles of gravimetric and volumetric analysis. Prerequisite: Chemistry 21. Laboratory fee,\* \$15 a term. Lecture (2 hours)—morning and evening sections; laboratory (6 hours)—afternoon and evening sections.

Summer term 1946.

**SECOND GROUP****†111-12 Physical Chemistry (5-5)**

Wood

Introduction to theoretical chemistry. Prerequisite: Chemistry 22 and 152; Mathematics 20; Physics 8. Laboratory fee,\* \$12 a term. Lecture (3 hours)—morning and evening sections; laboratory (6 hours)—afternoon and evening sections.

**122X Quantitative Inorganic Analysis (4)**

Guest

Application of the fundamental principles of analysis to more difficult separations and determinations. Prerequisite: Chemistry 22. Laboratory fee,\* \$15. Lecture (3 hours)—morning and evening sections; laboratory (6 hours)—afternoon and evening sections.

**†131-32 Inorganic Chemistry (2-2)**

Naeser

Chemistry and its theories from the standpoint of the periodic table, with major emphasis on the more common elements. Prerequisite: Chemistry 152. Prerequisite or concurrent registration: Chemistry 111-12. Evening.

**135-36 Inorganic Chemistry: Preparations (2-2)**

Naeser

Application of the technique of inorganic chemistry to the preparation and purification of a list of selected substances. Prerequisite: Chemistry 152. Prerequisite or concurrent registration: Chemistry 111-12. Laboratory fee,\* \$12 a term. Laboratory (6 hours)—evening.

**†151-52 Organic Chemistry (4-4)**

Mackall and Assistants

The chemistry of the compounds of carbon. Semi-micro technique is emphasized in the laboratory. Prerequisite: Chemistry 12. Students are strongly advised to take Chemistry 21 before entering this course. Laboratory fee,\* \$12 a term. Lecture (3 hours)—morning and evening sections; laboratory (3 hours)—afternoon and evening sections.

Summer term 1946.

\* The laboratory fee covers both material and equipment, and no breakage deposit is required. A fee of \$2 is charged any student who fails to check out of the laboratory by the time set by the instructor. Students breaking an excessive amount of equipment will be required to pay an additional fee.

- 155 Organic Chemistry: Preparations (2 or 3)** Wrenn  
The synthesis of organic compounds and the application of the technique of organic chemistry to the preparation of pure compounds, using larger amounts and greater refinements than in Chemistry 151-52. Prerequisite: Chemistry 22 and 152. Laboratory fee,\* \$7 a credit hour. Time to be arranged.  
Summer term 1946.

- 156 Qualitative Organic Analysis (2)** Mackall  
The identification of pure organic compounds, the separation of mixtures, and the identification of their components. Prerequisite: Chemistry 22, 152, and 155. Laboratory fee,\* \$15. Laboratory (6 hours) —evening.

- 191 History of Chemistry (2)** Mackall  
The development of chemistry, and the biographies of eminent contributors to the science. Prerequisite: Chemistry 22 and 152. Evening.

### THIRD GROUP

- 203 Chemical Kinetics (2)** Brunauer  
The rates of chemical reaction and the factors influencing them. Prerequisite: Chemistry 112. Evening.

- 204 Catalysis (2)** Brunauer  
Prerequisite: Chemistry 203. (Not offered in 1946-47.)

- 205 Surface Chemistry (2)**  
Prerequisite: Chemistry 112. (Not offered in 1946-47.)

- 206 Colloid Chemistry (2)**  
Prerequisite: Chemistry 205. (Not offered in 1946-47.)

- 211-12 Advanced Physical Chemistry (2-2)** Wood  
Development and application of the principles of thermodynamics and the kinetic theory to chemical problems. Prerequisite: Chemistry 112. Evening.

- 215-16 Physical Chemistry of Solids, Liquids, and Solutions (2-2)**  
215: solids, liquids, and solutions of nonelectrolytes.  
216: thermodynamics and statistical mechanics of solutions. Prerequisite: Chemistry 212. (Not offered in 1946-47.)

- 217-18 Recent Advances in Physical Chemistry (2-2)**  
Prerequisite: Chemistry 212. (Not offered in 1946-47.)

\* The laboratory fee covers both material and equipment, and no breakage deposit is required. A fee of \$2 is charged any student who fails to check out of the laboratory by the time set by the instructor. Students breaking an excessive amount of equipment will be required to pay an additional fee.



- †221-22 *Advanced Quantitative Analysis* (2-2) Hoffman  
The theory of the quantitative estimation of the less common elements. Prerequisite: Chemistry 122 and 132. Evening.
- 226 *Quantitative Organic Analysis* (3) Vincent  
Micro and semi-micro procedures. Prerequisite: Chemistry 122 and 152; permission of the instructor. Laboratory fee,\* \$12.
- †231-32 *Advanced Inorganic Chemistry* (2-2) Hoffman  
The chemistry of the less familiar elements. Prerequisite: Chemistry 132 and 152. Offered in 1947-48.
- 251-52 *Advanced Organic Chemistry* (3-3) Wrenn  
An introduction to the literature of organic chemistry: the study of the syntheses, reactions, and properties of carbon compounds; the fundamental theories of organic chemistry. Prerequisite: Chemistry 152; prerequisite or concurrent registration: Chemistry 111-12. Evening.  
Summer term 1946—Chemistry 251 (3).
- 253x *Advanced Synthetic Organic Chemistry* (3) Wrenn  
A critical study of the reactions employed in the synthesis of organic compounds. Prerequisite: Chemistry 251. Evening.
- 254 *Stereochemistry* (2) Mackall  
The stereochemistry of organic compounds. Prerequisite: Chemistry 252. (Not offered in 1946-47.)
- 255 *Carbohydrates* (2) Hooper  
The structure and properties of the carbohydrates. Prerequisite: Chemistry 252. Evening.
- 256 *Polypeptides* (2)  
The structure and classification of polypeptides and their derivatives. Prerequisite: Chemistry 252. (Not offered in 1946-47.)
- 291-92 *Seminar* (1-1) The Staff  
(Not offered in 1946-47.)
- 297-98 *Research* The Staff  
Research on problems approved by the staff. Open to qualified students with advanced training. Hours, credits, and fees to be arranged.  
Summer term 1946.
- 299-300 *Thesis* (3-3) The Staff  
Laboratory fee,\* \$15 a term. Hours to be arranged.  
Summer term 1946.

\* The laboratory fee covers both material and equipment, and no breakage deposit is required. A fee of \$2 is charged any student who fails to check out of the laboratory by the time set by the instructor. Students breaking an excessive amount of equipment will be required to pay an additional fee.

## CIVIL ENGINEERING

- Frank Artemas Hitchcock, M.S. in C.E., C.E., *Professor of Civil Engineering*  
 Carl Hugo Walther, B.E., M.C.E., *Associate Professor of Civil Engineering, Executive Officer*  
 Joseph Carl Oleinik, B.S. in C.E., M.S., *Lecturer in Civil Engineering*  
 William Hayward, B.S. in C.E., *Lecturer in Civil Engineering*  
 Ralph Edward Fuhrman, B.S. in C.E., M.S., *Lecturer in Civil Engineering*  
 Harold Harrison Dutton, B.S. in C.E., *Associate in Civil Engineering*  
 Perry Harold Petersen, B.S. in C.E., *Associate in Civil Engineering*  
 Waldo Edward Smith, B.E., M.S., *Professorial Lecturer in Civil Engineering*  
 Edgar Stover Walker, B.S. in C.E., *Lecturer in Civil Engineering*  
 Moses Freedman, B.S. in Eng., *Lecturer on Contracts and Specifications*  
 Don Gulbrandson, B.S. in C.E., *Lecturer in Civil Engineering*

*Minimum requirements for the major.—See pages 102-3.*

### FIRST GROUP

- 2 *Plane Surveying* (3) Hayward, Walker  
 Principles, methods, and instruments used in surveying; with field work. Prerequisite: Trigonometry. Surveying fee, \$6. Afternoon and evening sections; field work—Sat., morning and afternoon sections.  
 Summer term 1946.
- 15 *Navigation* (3)  
 Principles, methods, and instruments used in surface and aerial navigation. Charts, piloting, dead-reckoning, nautical astronomy, position determination. Prerequisite: Trigonometry. (Not offered in 1946-47.)
- 17 *Meteorology for Navigation* (2)  
 Principles and elements of atmospheric behavior; weather forecasting, data, and maps. Prerequisite: Physics 6 and 7. (Not offered in 1946-47.)
- 21 *Analytical Mechanics: Statics* (2) Walther, Gulbrandson  
 Composition and resolution of forces; axial stresses; centroids; friction. Prerequisite: Physics 6; prerequisite or concurrent registration: Mathematics 20. Morning and evening sections.  
 Summer term 1946.

**22 Analytical Mechanics:  
Dynamics (3)**

Walther, Gulbrandson

Kinematics of a particle; kinetics of a body in translation, rotation, and plane motion; work and energy; impulse and momentum. Prerequisite: Civil Engineering 21. Morning and evening sections. Summer term 1946.

**23 Higher Surveying (4)**

Hayward

Elements of geodesy, triangulation, topography, hydrography, and precise and trigonometric leveling, with field work. Prerequisite: Civil Engineering 2. Surveying fee, \$6. Lecture—morning and evening sections; field work—Sat., morning and afternoon sections.

**25-26 Materials of Construction (2-2)**

Petersen

Nonmetallic materials, with emphasis on cement; metallic materials with emphasis on iron and steel. Prerequisite or concurrent registration: Chemistry 12. Morning and evening sections

SECOND GROUP

**123 Strength of Materials (3)**

Hitchcock

Tension, compression, shear, flexure, and torsion; deflection; combined and working stresses. Prerequisite: Civil Engineering 22. Morning and evening sections.

**136 Hydraulics (3)**

Smith

Hydrostatics: flow through pipes and open channels; laminar and turbulent flow. Prerequisite: Civil Engineering 22. Morning and evening sections.

**140 Materials and Hydraulics Laboratory (2)**

Dutton

Determination of the properties of materials by mechanical tests, and a study of the flow of fluids. Prerequisite: Civil Engineering 123; prerequisite or concurrent registration: Civil Engineering 26 and 136. Laboratory fee, \$6. Afternoon and evening sections.

**141 Graphic Statics (3)**

Hitchcock

Fundamental principles; analyses of beams; determination of stresses in roof trusses and framed bents. Prerequisite or concurrent registration: Civil Engineering 123. Drafting-room fee, \$1. Lecture (2 hours)—morning and evening sections; laboratory (2 hours)—afternoon and evening sections.

**142 Bridge Stresses (3)**

Hitchcock

Determination of stresses in modern types of bridge trusses. Prerequisite: Civil Engineering 141. Drafting-room fee, \$1. Lecture (2 hours)—morning and evening sections; laboratory (2 hours)—afternoon and evening sections.

**147-48 Structural Design (2-2)**

Walther

Computations and drawings for the design of steel structures. Prerequisite: Civil Engineering 142. Drafting-room fee, \$3 a term. Evening.



- 149-50 *Concrete and Masonry Construction* (3-3) Oleinik  
Plain concrete, general properties and theory of reinforced concrete, foundations and retaining walls. Prerequisite: Civil Engineering 25 and 123. Civil Engineering 149, laboratory fee, \$6; Civil Engineering 150, drafting-room fee, \$1. Evening.
- 151-52 *Statically Indeterminate Structures* (2-2) Walther  
A study of such structures as continuous spans, rigid frames, and arches by methods of work, slope deflection, and moment distribution. Prerequisite: Civil Engineering 142. Evening.
- 164 *Highway Engineering* (3) Gulbrandson  
Highway economics, location, construction, and maintenance. Prerequisite or concurrent registration: Civil Engineering 25 and 171. Evening.
- 171 *Route Surveying* (3) Walker  
Curves and earthwork, and methods of location as used on railroads and highways; field work; complete highway location. Prerequisite: Civil Engineering 2. Surveying fee, \$6. Lecture—evening; field work—Sat., afternoon.
- 172 *Railroad Engineering* (3)  
Track construction and requirements, rolling stock, cost and operation of railroads, with field work. Prerequisite: Civil Engineering 171. Surveying fee, \$6. (Not offered in 1946-47.)
- 181-82 *Water Supply and Sewerage* (3-3) Fuhrman  
Collection, storage, purification, and distribution of water; sewerage systems and treatment of sewage. Prerequisite: Civil Engineering 136; Chemistry 12. Evening.
- 187 *Contracts and Specifications* (2) Freedman  
Contract principles; preparation of contracts; specifications and methods of studying them; examples of contracts and specifications; practice in analyzing and writing specifications. Evening.
- 189-90 *Civil Engineering Proseminar* (1-1)  
Evening.

## CLASSICAL LANGUAGES AND LITERATURES

\*John Francis Latimer, Ph.D., *Associate Professor of Classical Languages and Literatures*

### LATIN

†1-2 *First-year Latin* (3-3)

Essentials of Latin grammar; reading selections; composition. (Not offered in 1946-47.)

†3-4 *Second-year Latin* (3-3)

Review of grammar; wide variety of reading selections; composition. (Not offered in 1946-47.)

### GREEK

†1-2 *First-year Greek* (3-3)

Essentials of Greek grammar; reading selections; composition. (Not offered in 1946-47.)

†3-4 *Second-year Greek* (3-3)

Review of grammar; wide variety of reading material; composition. (Not offered in 1946-47.)

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\* On war leave 1946-47.

## DERMATOLOGY AND SYPHILOLOGY

Harry Ford Anderson, M.D., *Professor of Dermatology and Syphilology, Executive Officer*

George William Creswell, A.B., M.D., *Associate in Dermatology and Syphilology*

Hayden Kirby-Smith, B.S., M.D., *Associate in Dermatology and Syphilology*

Leon Hugh Warren, A.B., M.D., M.S. in Med., *Clinical Instructor in Dermatology and Syphilology*

George Davis Weickhardt, M.D., *Clinical Instructor in Dermatology and Syphilology*

313-14 *Dermatology and Syphilology* Anderson  
Lectures on diseases of the skin and syphilis. One hour a week.

316 *Neurosyphilis* Weickhardt  
Lectures, clinical demonstrations, and practical diagnostic and therapeutic procedures. One hour a week for eight weeks.

317-18 *Clinic* Kirby-Smith  
Case demonstrations, diagnosis, and treatment of skin diseases and syphilis. Three hours a week. Gallinger Hospital.

407-8 *Clinic* Anderson  
Dermatology and syphilology in infants and children. Children's Hospital. Two hours a week.

409-10 *Clinic* Anderson, Kirby-Smith  
Clinical demonstration, diseases of the skin. Two hours a week. Emergency Hospital.

411-12 *Clinic* The Staff  
Clinical demonstrations, diseases of the skin, and diagnosis and therapy of syphilis. One hour a week. University Hospital.

413-14 *Clinic* Creswell  
Diagnosis, laboratory procedures, and treatment of syphilis. Two hours a week. Southwest Health Center.



## ECONOMICS

John Donaldson, Ph.D., *Professor of Political Economy*

Arthur Edward Burns, Ph.D., *Professor of Economics*

James Christopher Corliss, A.M., *Adjunct Professor of Inter-American Economics*

Gerhard Colm, Dr. rer. pol., *Professorial Lecturer in Economics*

Arthur Smithies, LL.B., Ph.D., *Professorial Lecturer in Economics*

Edward Campion Acheson, Ph.D., *Associate Professor of Finance*

Donald Stevenson Watson, Ph.D., *Associate Professor of Economics.*

### *Executive Officer*

Peyton Armstrong Kerr, Ph.D., *Lecturer in Economics*

Charles David Stewart, M.Soc. Sci., *Lecturer in Economics*

Carl Johann Ratzlaff, Ph.D., *Lecturer in Economics*

Otto Sternoff Beyer, M.E., *Lecturer on Labor Relations*

Jacob Louis Mosak, Ph.D., *Lecturer in Economics*

*The major.*—Prerequisite: Economics 1-2. Required: (1) Economics 101 and three additional credit hours in economic theory (courses numbered 100-109); (2) six credit hours in each of three of the four following groups: finance (courses numbered 120-29), labor (courses numbered 140-49), government and economic policy (courses numbered 160-69), and international economics (courses numbered 180-92); (3) fifteen credit hours of second-group courses selected from the following departments—Business Administration, History, Philosophy, Political Science, and Statistics; strongly recommended: History 147 and 174; Statistics 115-16.

### FIRST GROUP

#### 1-2 *Introductory Economics\** (3-3)

The Staff

Survey of the major economic institutions and economic problems in contemporary society. Morning and evening sections.

Economics 1x—same as Economics 1, but offered winter term. Evening.

Economics 2x—same as Economics 2, but offered fall term. Evening.

Summer term 1946.

### SECOND GROUP\*

#### 101 *Economic Theory* (3)

Watson

Introduction to formal economic theory; advanced analysis of demand, supply, and price relations. Evening.

Economics 101x—same as Economics 101, but offered winter term. Morning.

Summer term 1946.

\* Economics 1-2 is prerequisite to all other courses in economics.

- 102 *History of Economic Thought* (3) Burns  
Economic doctrines since the mercantilist writers; the history of the major schools of thought; influence of changing problems on theory. Morning.  
Summer term 1946.
- 103 *Advanced Economic Theory* (3) Watson  
Analysis of the theory of monopolistic competition and other recent developments in general economic theory. Prerequisite: Economics 101. (Not offered in 1946-47.)  
Summer term 1946.
- 105 *Economic Fluctuations: Business Cycles* (3) Burns  
Analysis of strategic factors in economic instability and economic retardation; survey of recent business-cycle theories. Morning.  
Summer term 1946.
- 108 *The National Income* (3) Burns  
The measurement, composition, and determinants of the national income.  
Summer term 1946.
- 121-22 *Money and Banking* (3-3) Acheson  
Money, bank credit, and prices; commercial and investment banking; banking systems; historical development of banking; government and banking; functions of money and banking. Morning and evening sections.  
Summer term 1946.
- 123 *Monetary Theory* (3) Acheson  
The development of monetary theory; principal contemporary approaches; theoretical background of recent monetary policy. Evening.
- 125 *Monetary Problems* Acheson  
Survey of monetary developments since the first World War; monetary policies in the 1930's; war finance; postwar monetary reconstruction. (Not offered in 1946-47.)  
Summer term 1946.
- 126 *Foreign Exchange and International Finance* (3) Acheson  
Theory and practice of foreign exchanges; the gold standard and international finance during the nineteenth century; war and postwar exchange problems. Prerequisite: Economics 121-22. Evening.
- 140 *Occupational Trends* (3) Stewart  
Primarily for occupational counselors. Forecasting the level of activity; postwar problems in demobilization and reconversion; significance of national trends for vocational counselors; national and local labor markets. Evening.
- 141 *Labor Economics* (3)  
Labor problems: wages, hours, and working conditions; growth of labor organizations; types of unions; union tactics and programs. Evening.  
Summer term 1946.

- 142 *Government and Labor Problems* (3)  
Labor legislation; labor and the courts; federal regulation of capital-labor relations; the work of federal labor boards. Evening.
- 143 *Labor Movements* (3)  
The forms, development, and problems of labor organizations. Time to be arranged.
- 146 *Economic Security and Social Insurance* (3)  
Economic and social problems of unemployment and destitution; analysis of the federal social security program; survey of the Beveridge and other plans.  
Summer term 1946.
- 161-62 *Public Finance and Taxation* (3-3) Watson  
General survey of government expenditures, sources and methods of taxation, economic effects of expenditures and taxes, and of government debt policies. Evening.
- 165 *Government Control of Economic Activity* (3) Watson  
Changing role of government in promoting and regulating economic activity; types and spheres of control. Morning.
- 166 *Comparative Systems of Economic Reform* (3) Watson  
Critical analysis of the major theories of economic and social reform, with special attention to their origins and backgrounds. (Not offered in 1946-47.)
- 167 *Economics of Planning* (3) Watson  
Analytical comparison of economic systems coordinated by market price with those coordinated by central authority. (Not offered in 1946-47.)
- 172 *Agricultural Economics* (3)  
The production and marketing of agricultural products, with special attention to price behavior and problems of government policy. Time to be arranged.
- 180 *Principles of Foreign Trade* (3) Ratzlaff  
International trade, foreign exchange, tariffs and commercial agreements.  
Summer term 1946.
- 181-82 *International Economics* (3-3) Donaldson  
Survey of world economics; basic factors; resource controls; international trade; industrial, financial, and monetary processes and policies; relation to internal economic systems. Morning.
- 183 *Tariffs and Commercial Treaties* (3) Donaldson  
Origins and types of modern foreign commercial policy, in the light of evolving doctrines; forms and economic effects of tariffs and other measures, and of international commercial accords. Evening.



- 184 *The New Foreign Economic Policies* (3) Donaldson  
The new types of foreign trade and exchange controls and agreements; causes, growth, and techniques. Evening.
- 185-86 *Economic History and Problems of South America* (3-3) Corliss  
Economic development of South America (excluding Colombia and Venezuela). Particular emphasis on economic developments and problems since the First World War. 1946-47 and alternate years, evening.
- 187-88 *Economic History and Problems of the Caribbean Area* (3-3) Corliss  
Economic developments of Colombia, Venezuela, Mexico, and the Central American and West Indian republics. Particular emphasis on economic developments and problems since the First World War. 1947-48 and alternate years. Evening.
- 190 *International Economic Reconstruction* (3) Donaldson  
Survey of international economic problems in the postwar period; consideration of proposals for postwar reconstruction. Evening.
- 191-92 *Contemporary Banking, Currency, and Exchange in Latin America* (3-3) Corliss  
Survey of monetary and banking developments in important Latin American republics since the First World War. (Not offered in 1946-47.)
- 193-94 *Proseminar in Hispanic American Civilization and Culture* (3-3) Corliss  
Coordination and review course. Open only to candidates majoring in Hispanic American Civilization and Culture. Time to be arranged.

## THIRD GROUP

- 201-2 *History and Literature of Economic Thought* (3-3) Burns  
Critical analysis and interpretation of the development and the literature of economic thought; origins and problems of the major types of theory; their relation to present problems and policies. Evening.
- 204 *Contemporary Economic Theory* (3) Watson  
Intensive analysis of the recent literature in price theory. Prerequisite: Economics 201-2. Evening.
- 205 *Business Cycle Theory* (3) Burns  
Summer term 1946.
- 206 *Theory of Employment and Income* (3) Burns  
Analysis of several types of current business-cycle theories; recent works of Keynes and others. Offered in 1946-47 and alternate years. Time to be arranged.

- 225 *Economic Stabilization Policies* (3) Smithies  
Appraisal of economic policies directed towards the stabilization of the economy, with special attention to the problem of full employment. (Not offered in 1946-47.)
- 227 *International Finance* (3) Acheson  
Studies of the monetary history and exchange problems of specific countries. (Not offered in 1946-47.)
- 242 *Labor and Social Economics* (3)  
Analysis of labor problems, with special reference to labor organization; intensive study of federal regulation and participation in capital-labor relations. (Not offered in 1946-47.)
- 244 *Labor Relations* (3) Beyer  
The collective bargaining contract and the elements comprised in it; analysis of the policies of labor and of management. Evening.
- 261 *Problems of Fiscal Policy* (3) Colm  
Special problems: deficit financing; current tax problems; and federal, state, and local financial relationships. 1946-47 and alternate years, evening.
- 263 *Theory and Literature of Public Finance* (3) Colm  
Survey of the major contributions to the theory and doctrines of public finance. (Not offered in 1946-47.)
- 265 *Theory of Economic Policy* (3) Watson  
The nature, forms, methods, and objectives of economic policy; the relation of economic theory to economic policy. Evening.
- 270 *Institutional Framework of Economic Policy* (3) Colm  
The structure of government and of the economy in its influence on economic policy; the roles of institutional changes, blocs, and pressure groups. Offered in 1946-47 and alternate years. Time to be arranged.
- 272 *Interest Groups and Economic Policy* (3) Colm  
The economic policies of business, labor, and farm groups in their relations to the economic policies of government. (Not offered in 1946-47.)
- 281 *Theories of International Economics* (3) Donaldson  
Examination and critique of mercantilism, classical international equilibrium analysis, and other schools of world economic thought. Evening.
- 282 *The Balance of International Payments* (3) Donaldson  
Structure and theories of the balance; money and foreign exchange and interrelationships of trade, gold flows, capital movements, etc.; the balance and foreign economic policy formulation. Evening.
- 283-84 *Research in International Economics* (3-3) Donaldson  
Original investigations, analyses, and seminar discussions of special problems and concepts in world economics. (Not offered in 1946-47.)

- 285-86 *Public and Private Finance in Latin America* Corliss  
(3-3)  
Corporate finance, banking, and capital movements in Latin America; fiscal problems; public debt, deficit financing, taxation, public expenditures; foreign-exchange controls and problems. A reading knowledge of Spanish or Portuguese is required. Evening.
- 287-88 *Economic Problems of Latin America* (3-3) Corliss  
Foreign trade and foreign commercial policy; growth of industry and agriculture; government control of economic activity; recent economic trends and problems. Evening.
- 289 *Problems in International Financial Policy* (3) Smithies  
1946-47 and alternate years. Evening.
- 290 *Problems in International Economic Policy* (3) Smithies  
Exchange stabilization; world financial reconstruction; trade policy. (Not offered in 1946-47.)
- 292 *International Economic Organization* (3) Smithies  
1946-47 and alternate years. Evening.
- 295-96 *Economic Theory and Statistics in Research* Mosak  
(3-3)  
The application of economic theory and statistical techniques in problems of research. Evening.
- 297-98 *Thesis* (School of Government majors) The Staff  
(3-3)
- 299-300 *Thesis* (3-3) The Staff



## EDUCATION

William Cullen French, Ph.D., *Professor of Education*  
 Sidney Bartlett Hall, A.M., Ed.D., LL.D., *Professor of Education*  
 James Harold Fox, A.M., Ed.D., *Professor of Education, Executive Officer*  
 Chester Winfield Holmes, Ed.D., *Adjunct Professor of Education*  
 Benjamin Franklin Kyker, A.M., *Adjunct Professor of Education*  
 Meredith Chester Wilson, B.S., *Adjunct Professor of Education*  
 Ruth Coyner Little, Ph.D., *Professorial Lecturer in Education*  
 Lindley Hoag Dennis, A.M., Voc. Ed.D., *Professorial Lecturer in Education*  
 Ray LaForest Hamon, Ph.D., *Professorial Lecturer in Education*  
 Burnice Herman Jarman, A.M., Ed.D., *Associate Professor of Education*  
 Charles Edward Bish, A.M., Ed.D., *Associate Professor of Education*  
 Jane Frost Hilder, *Lecturer in Education, Director of Reading Clinic*  
 Madaline Kinter Remmlein, Ph.D., J.D., *Lecturer in Education*  
 Agnes Tweedie Beckwith, A.B., Ed.M., *Lecturer in Education*  
 LuVerne Crabtree Walker, A.M., *Lecturer in Education*  
 Helen Barton Goodwin, A.M., *Lecturer in Education*  
 Blake Smith Root, B.S., A.M., *Lecturer in Education*  
 Earl Thomas Willis, A.M., *Lecturer in Education*  
 Glenn Edward Barnett, Ed.D., *Lecturer in Education*  
 Marion DeFries Hall, A.M., *Assistant Director, Reading Clinic*  
 Mary Hoskins Gatchel, A.M., *Assistant, Reading Clinic*

### CONSULTANTS IN RESEARCH

Francis J. Brown, Ph.D., *Research Associate in Education*  
 Leonard A. Larson, Ph.D., *Research Associate in Education*  
 John Kerr Rose, Ph.D., *Research Associate in Education*

*Minimum requirements for degrees.—See pages 119 and 120.*

### SECOND GROUP

#### 109-10 *Learning and Teaching* (3-3)

For the general student as well as the prospective teacher. Fall term: nature of learning and teaching approached through the study of actual classroom situations. Winter term: the environmental influences that affect learning. Lecture (2 hours)—morning and evening sections; field work (2 hours)—to be arranged.

Summer term 1946—Education 109 (3).

- 121-22 *Society and the School* (3-3) Jarman, Root  
For the general student as well as the prospective teacher. Fall term: the local, national, and international roles of education; co-operation of the school with other community agencies. Winter term: organization and operation of schools; principles and functions. Lecture (2 hours)—morning and evening sections; field work (2 hours)—to be arranged.
- 123-24 *Reading Problems* (3-3) Hilder  
A clinical approach to reading difficulties on elementary and secondary school levels. Saturday morning.
- 131 *Common Teaching Skills* (3) \_\_\_\_\_  
Course, unit, and lesson planning; homeroom procedures; discipline; clerical routines; activity sponsorship; committee procedures; public relations duties. Lecture (2 hours)—afternoon; field work (2 hours)—to be arranged.
- 133-34 *Observation and Practice Teaching* \_\_\_\_\_  
(2 to 6)  
Education 134, practice-teaching fee, \$6 a credit hour. Time and credits to be arranged individually.

## SPECIAL METHODS COURSES

To be elected in the second term of the senior year after substantial preparation in the teaching fields concerned. Course requirements and hours of credit vary with license requirements. Practices of successful teachers are studied and actual teaching content as found in current texts and courses of study is reviewed.

- 136 *Teaching English* (2 to 4) Beckwith  
Lecture (2 hours)—late afternoon; field work (2 hours)—to be arranged.
- 138 *Teaching Social Studies* (2 to 4) Willis  
Lecture (2 hours)—late afternoon; field work (2 hours)—to be arranged.
- 140 *Teaching Mathematics* (2) Weida  
Time to be arranged.
- 141-42 *Teaching Art* (3-3) Goodwin  
Saturday morning.
- 144 *Teaching Science* (2 to 4) Bish  
Lecture (2 hours)—late afternoon; field work (2 hours)—to be arranged.
- 146 *Teaching Foreign Languages* (2 to 4) Doyle, Keating  
Time to be arranged.
- 148 *Teaching Home Economics* (2) Kirkpatrick  
Time to be arranged.

- 150 *Teaching Business Education* (2 to 6)  
Time to be arranged.

- 156 *Secondary Education; The Junior and Senior High School* (3) Root  
Development, purpose, relation to elementary education, organization and administration, guidance, program of studies, community relationships.  
Summer term 1946.

### THIRD GROUP

- 205-6 *The Curriculum* (3-3) French  
Analysis of basic curriculum literature and procedures. The winter term will be organized as a curriculum workshop with lectures, conferences, and group discussions. Late afternoon.  
Summer term 1946—Education 206 (3), Hall.
- 209-10 *Child Growth and Development* (3-3) Hall  
Nature of growth and the environmental factors that affect it, with a view to helping teachers to understand children. Saturday morning  
Summer term 1946—Education 209 (3).
- 213-14 *Seminar: Origins of American Education* French  
(3-3)  
Historical research in American Education. Evening.
- 215-16 *Seminar: Great Teachers in American Education* French  
(3-3)  
A study of great teachers from the colonial period to the present. An attempt will be made to find out the qualities and characteristics that have made these teachers great. (Not offered in 1946-47.)
- 217-18 *Contemporary Problems in Education* (3-3) Jarman  
Fall term: designed to help students formulate a personal philosophy of education. Winter term: a study of the forces that shape the policies and offerings of the school. Evening.  
Summer term 1946—Education 218 (3).
- 221-22 *Seminar: Early Childhood Education* (3-3) Little  
Fall term: home backgrounds, nursery school, and kindergarten situations. Winter term: primary grades. Evening.
- 224 *Newer Developments in Children's Literature* (3) Walker  
Exploring and evaluating the newer books for children and the children's classics; understanding the contribution of literature in child development; appreciating children's original expressions; surveying resources in the field. Evening.



- 225-26 *Seminar: Elementary Education in the Intermediate Grades (3-3)* Little  
A comprehensive study of the major problems of the intermediate grades. (Not offered in 1946-47.)
- 227 *Trends in Elementary Education (3)* Barnett  
A survey of current practices descriptive of the emerging elementary school.  
Summer term 1946.
- 229-30 *Administration and Supervision of Elementary Education (3-3)* Hall  
Problems of elementary school administrators and supervisors. (Not offered in 1946-47.)
- 231 *Secondary School Classroom Procedures (3)* Bish  
Survey of current classroom practices with particular attention to methods and techniques used by the Armed Forces; reviews of recent literature.  
Summer term 1946.
- 247 *Vocational Education (3)* Dennis  
Major issues, problems, and trends.  
Summer term 1946.
- 252 *Guidance in Secondary Schools (3)* Davis  
Nature, scope, administration, and supervision of guidance functions for Grades 7-12. Provision for the special needs and interests of administrators, counselors, home room teachers, the Business Education staff, and instructors in other vocational and in academic subjects. Evening.
- 255-56 *Secondary Education (3-3)* Bish  
Fall term: new developments in the organization of content and methodology. Winter term: current problems in each of the teaching fields. Evening.
- 257 *Secondary Education: The Junior High School (3)* Fox, Bish  
Purposes, objectives, and practices of good schools; organization and management; implementation of curriculum changes; public relations. Primarily for principals.  
Summer term 1946.
- 259-60 *Administration of Secondary Education (3-3)* Fox  
Management planning, execution, and control; criteria of good management; construction of the master schedule; leadership problems incident to the development of new policies and programs. Saturday morning.
- 271 *The American School System (3)* Fox  
Organization of public education; sources of school revenue; influences of national and state agencies; local administrative units; the chief legal controls; criteria of building administration; responsibilities of teachers. Evening.  
Summer term 1946.

- 272 *The Teacher and School Supervision* (3) Fox  
Nature, organization, human relationships, and techniques. Evening.  
Summer term 1946.
- 273 *Administration: Organization and Administration of a School System* (3) Hall  
For superintendents and those aspiring to this position. Issues, principles, and problems of the superintendency as conditioned by local circumstances. (Not offered in 1946-47.)
- 274 *Administration: Management Problems of the Superintendent* (3) Hall  
For superintendents and those aspiring to this position. Business management, the budget, construction of buildings, equipment and supplies, pupil transportation. (Not offered in 1946-47.)
- 275 *Seminar: State School Administration* (3) Hall  
Organization, administration, supervision, instruction, and finance. (Not offered in 1946-47.)
- 276 *Seminar: Public Relations in School Administration* (3) Fox  
Purposes; gathering materials; disseminating agencies; publicity media; public participation in policy-making. (Not offered in 1946-47.)
- 278 *School Law* (3) Remmlein  
Sources and scope of school law; legal rights and responsibilities of teachers, pupils, and taxpayers. Other legal problems of major interest to the group. (Not offered in 1946-47.)
- 279-80 *Adult Education* (3-3) Bish  
Fall term: nature, extent, and organization of programs in adult education. Winter term: interests, needs, and capacities of adult learners; techniques employed in motivating and directing learning activities. (Not offered in 1946-47.)  
Summer term 1946—Education 280 (3).
- 281 *Audio-visual Education* (3)  
Selection and use of audio-visual aids; management of materials and equipment. Material fee, \$5. Lecture (1 hour), laboratory (2 hours); Saturday morning.
- 283-84 *Employee Training* (3-3) Bish  
Organization and administration of employee-training programs in accordance with operating needs; orientation, supervisory, and skills training; coordination of training with other personnel functions; evaluation of training. Field work is required. Evening.
- 285 *Extra-classroom Activities* (3) Fox, Bish  
Home room functions, emphasizing orientation and guidance; student self-government, clubs, assemblies, school publications.  
Summer term 1946.
- 287-88 *Clinical Study of Reading Problems* (3-3) Hilder  
For advanced students. Diagnostic work under supervision in the Reading Clinic. Admission by permission of the instructor. Saturday morning.

- 289-90 *Teacher Education (3-3)* Hall  
Historical background of teacher education; present trends and modifications in the United States. Evening.
- 291 *Planning the School Plant (3)* Hamon  
Selection of sites; evaluation of existing buildings; utilization of present facilities; adaptation to curricular needs; building, operation, and maintenance problems. Saturday morning.
- 293-94 *Research (3-3)* The Staff  
Individual research under the guidance of a member of the staff. Program and conferences arranged with an instructor.
- 295 *Educational Research Methods and Procedures (3)* Fox  
Required of all Master of Arts candidates following Plan 2. Evening.  
Education 295x—same as Education 295, but offered winter term. Late afternoon.
- 297-98 *Thesis (3-3)* The Staff  
Required of all Master of Arts candidates following Plan 1. Time to be arranged.  
Summer term 1946.



## ELECTRICAL ENGINEERING

Norman Bruce Ames, M.S., E.E., LL.B., *Professor of Electrical Engineering, Executive Officer*

Forest Klaire Harris, Ph.D., *Professorial Lecturer in Electrical Engineering*

Newbern Smith, M.S. in E.E., Ph.D., *Professorial Lecturer in Electrical Engineering*

Milton Kent Akers, B.S., E.E., *Associate Professor of Electrical Engineering*

Dwight Edward Shytte, *Associate in Electrical Engineering*

Edmund Douglas Schreiner, B.E.E., *Associate in Electrical Engineering*

Thomas Alvin O'Halloran, B.E.E., *Associate in Electrical Engineering*

*Minimum requirements for the major.—See pages 101-2, 103-4.*

### FIRST GROUP

- 9-10 *Elements of Electrical Engineering (3-3)* Ames  
Electrical Engineering 9: magnetic and electric circuits, and direct-current instruments and machines; Electrical Engineering 10: alternating-current circuits, instruments, and machines. Prerequisite: Physics 7. Prerequisite or concurrent registration: Mathematics 20. Afternoon and evening sections.  
Summer term 1946.

- 13-14 *Direct- and Alternating-Current Laboratory (2-2)* The Staff  
For the student not majoring in electrical engineering. Experiments in direct and alternating currents and direct- and alternating-current machinery. Prerequisite: Electrical Engineering 10. Laboratory fee, \$6 a term. Afternoon and evening sections.

- 17-18 *Direct-Current Laboratory (2-2)* The Staff  
For the student majoring in electrical engineering. A course in measurements and direct-current dynamo laboratory. Prerequisite: Electrical Engineering 9-10. Laboratory fee, \$6 a term. Afternoon and evening sections.

### SECOND GROUP

- 101 *Electric Circuits (3)* Akers  
Alternating-current-circuit theory. Extensive consideration is given to harmonic analysis and to the study of harmonics in both single-phase and polyphase circuits. Prerequisite: Electrical Engineering 10. Evening.

- 102 *Alternating-Current Machinery* (3) Akers  
Synchronous generators and motors, transformers, and mercury arc rectifiers. Prerequisite: Electrical Engineering 101. Evening.
- 103 *Alternating-Current Machinery* (3) Akers  
A continuation of Electrical Engineering 102. Converters, induction motors, single-phase motors. Prerequisite: Electrical Engineering 102. Evening.
- 111-12 *Electrical Measurements* (2-2) Harris  
Theory of direct-current and alternating-current instruments, bridges, and meters. Prerequisite or concurrent registration: Electrical Engineering 101. Evening.
- 125-26 *Principles of Electric Power Transmission* (2-2) Akers  
Mechanical and electrical characteristics of transmission lines, approximate and rigorous solutions by means of hyperbolic functions, steady-state and elementary transient considerations, the more important phases of distribution of electrical energy. Prerequisite: Electrical Engineering 101.
- 133-34 *Alternating-Current Laboratory* (2-2) The Staff  
A continuation of Electrical Engineering 17-18, with experiments on alternating-current circuits, instruments, and machinery. Prerequisite: Electrical Engineering 18 and 102. Laboratory fee, \$6 a term. Afternoon and evening sections.
- 136 *Hydro-Electric Engineering* (2) Ames  
Present-day theory and practice in hydro-electric engineering. Prerequisite: Electrical Engineering 10; Civil Engineering 136. (Not offered in 1946-47.)
- 137 *Electric Traction* (2) Ames  
Theory and practice of modern direct- and alternating-current railways. Prerequisite: Electrical Engineering 10. Evening.
- 138 *Industrial Electrical Power Applications* (2) Akers  
The characteristics of the various types of electrical motors and other power appliances and the principles governing their applications in industry. Prerequisite: Electrical Engineering 10 and junior standing. Evening.
- 140 *Electrical Design* (3) Ames  
Principles of design, with reference to materials of construction and electrical equipment. Practical exercises are assigned in connection with classroom work. Prerequisite: Electrical Engineering 103. Evening.
- 143-44 *High-Frequency Communication* (3-3) Smith  
Principles of high-frequency communication circuits and fields and of high-frequency measurement. Prerequisite: Electrical Engineering 101; Physics 132. Evening.

- 151-52 *Communication Engineering (2-2)* O'Halloran  
Principles of communication circuits and measurements. Particular attention is given to low and intermediate-frequency phenomena. Prerequisite: Electrical Engineering 101; Physics 132. Evening.
- 161-62 *Communications Laboratory (2-2)* Schreiner  
A laboratory course paralleling Electrical Engineering 151-52. Prerequisite or concurrent registration: Electrical Engineering 151. Laboratory fee, \$6 a term. Evening.
- 189-90 *Proseminar in Electrical Engineering (1-1)* Ames, Akers  
Prerequisite: Electrical Engineering 103. Evening.



## ENGLISH

Robert Whitney Bolwell, Ph.D., *Professor of American Literature*  
 Audley Lawrence Smith, Ph.D., *Associate Professor of English*  
 Ernest Sewall Shepard, A.M., *Associate Professor of English, Executive Officer*

George Winchester Stone, Jr., Ph.D., *Associate Professor of English*  
 Fred Salisbury Tupper, Ph.D., *Associate Professor of English*  
 Charles William Cole, Ph.D., *Associate Professor of English*  
 Calvin Darlington Linton, Ph.D., *Associate Professor of English*  
 Averett Howard, A.M., *Assistant Professor of English*  
 Muriel Hope McClanahan, Ph.D., *Assistant Professor of English*  
 Katharine Rogers Adams, Ph.D., *Lecturer in English*  
 William Lewis Turner, A.M., *Lecturer in English*  
 Martin Steele Day, A.B., *Instructor in English*  
 Phyllis Annette Nichols, A.B., *Instructor in English*  
 Paul Charles Dunleavy, A.M., *Instructor in English*  
 James Harold Coberly, A.M., *Instructor in English*

*The major.*—The coordinated knowledge which a student must exhibit in the major in English, and upon which he will be examined at the end of his senior year, is summarized under four general headings: (1) the history of English literature from the Anglo-Saxon period; (2) the chief English writers (a certain familiarity with each man and his main works and a detailed knowledge of Shakespeare); (3) English social and political history as it bears upon or is reflected in the literature; (4) European intellectual backgrounds and movements which have affected English literature. It is advised that the student planning to major in English elect courses in English and European historical and intellectual backgrounds before his junior year. Professors Stone and Tupper are advisers for the English major.

*The major in American Thought and Civilization.*—For details, see the pamphlet on this subject and consult the adviser.

### FIRST GROUP

#### 1-2 *Freshman English\** (3-3)

The Staff

Review of grammar, exercises in composition, study of prose essays.  
 Morning and evening sections.

English 1x—same as English 1, but offered winter term. Morning and evening sections.

English 2x—same as English 2, but offered fall term. Morning and evening sections.

Summer term 1946.

\* Students registered in English 1 are, at the beginning of the course, tested in the minimum essentials of standard usage, vocabulary, writing skill, and reading speed and comprehension. Those students who show marked superiority may be exempted from one or both terms of the Freshman English course; those who show deficiencies will be assigned extra work during the first term.

- 3-4 *English for Foreign Students* (3-3) Rogers  
A course in reading and writing designed to take the place of English 1-2. Special attention is given to spelling, syntax, grammar, idiom, and vocabulary. Evening.
- 9 *Sophomore Composition* (3) The Staff  
A study of types of expository writing with weekly exercises. Prerequisite: English 1-2. Morning and evening sections.  
English 9x—same as English 9, but offered winter term. Morning
- 10 *Sophomore Composition* (3) The Staff  
A study of the modern short story, with exercises in narrative writing. Prerequisite: English 1-2. Morning and evening sections.  
Summer term 1946.
- 51-52 *Introduction to English Literature* (3-3) Smith, Stone, Linton  
A historical survey. Morning and evening sections.  
English 51x—same as English 51, but offered winter term. Morning.  
Summer term 1946.
- 71-72 *Introduction to American Literature* (3-3) Bolwell, Cole, Coberly  
A historical survey. First half: from the beginnings to the Civil War. Second half: from the Civil War to the present day. Morning and evening sections.  
English 71x—same as English 71, but offered winter term. Morning.  
Summer term 1946.
- 91-92 *Introduction to European Literature* (3-3) Shepard  
Consideration of various types. Morning and evening sections.  
Summer term 1946.

## SECOND GROUP

- 115-16 *The Short Story* (3-3)  
Some study of the technique of the short story and class criticism of student writing. Prerequisite: English 10 with honor grade, or consent of the instructor after submission of a specimen of imaginative writing. Evening.
- 121-22 *English Literature from the Beginnings to 1500* (3-3) Stone  
Prerequisite: English 51-52, 71-72, or 91-92. Morning.
- 125 *The Evolution of Modern Speech* (3) Stone  
The development of the English language in a historical treatment of English grammar. Evening.
- 126 *The Appreciation of Literature* (3) Stone  
The study of the principles of criticism and their application to various literary types. Evening.

- 129-30 *Elizabethan Nondramatic Literature* (3-3) Tupper  
Nondramatic literature from 1485 to 1603. Prerequisite: English 51-52, 71-72, or 91-92. (Not offered in 1946-47.)  
English 130x—same as English 130, but offered fall term. Morning.  
Summer term 1946—English 129 (3).
- 135-36 *Shakespeare* (3-3) Tupper  
Prerequisite: English 51-52, 71-72, or 91-92. Morning.  
Summer term 1946.
- 139-40 *The Seventeenth Century* (3-3) Linton  
First half, poetry and prose from 1603 to 1660; second half, Milton.  
Prerequisite: English 51-52, 71-72, or 91-92. Evening.
- 141-42 *The Neoclassical Movement* (3-3) Smith  
Poetry and prose from 1660 through the mid-eighteenth century.  
Prerequisite: English 51-52, 71-72, or 91-92. (Not offered in 1946-47.)
- 151-52 *The Romantic Movement* (3-3) Smith  
From the mid-eighteenth century through Shelley and Keats. Prerequisite: English 51-52, 71-72, or 91-92. Evening.  
Summer term 1946.
- 161-62 *Victorian Literature* (3-3) Shepard  
Poetry and prose from 1830 to 1900. Prerequisite: English 51-52, 71-72, or 91-92. Morning.  
Summer term 1946—English 162 (3).
- 165-66 *Contemporary British Literature* (3-3) Linton  
Poetry, prose, and drama since 1900. Prerequisite: English 51-52, 71-72, or 91-92. Morning.
- 171-72 *Studies in American Literature* (3-3) Cole  
Major factors in the national cultural tradition as shown by outstanding writers. Prerequisite: English 51-52 or 71-72. Evening.
- 175 *The American Drama* (3) Bolwell, Cole  
Reading and analysis of significant plays, from the beginnings to the present day. Morning.  
Summer term 1946.
- 176 *The American Novel* (3) Cole  
Chronological development of fiction from the beginnings through the 1920's. Morning.  
Summer term 1946.
- 177-78 *Recent American Literature* (3-3) Bolwell  
Modern trends and significant writers of the 1930's and 1940's. First half: poetry and criticism. Second half: fiction and drama (including motion pictures). Evening.
- 179-80 *Proseminar: Readings for American Civilization Major* (3-3) Bolwell, Cole  
Conferences and group discussions. Evening.



- 181 *The English Novel* (3) Smith  
Major English novelists from Richardson to the Brontës. Prerequisite: English 51-52, 71-72, or 91-92. Morning.
- 182 *The English Novel* (3) Shepard  
Major English novelists from Dickens to Woolf. Prerequisite: English 51-52, 71-72, or 91-92. Morning.
- 183-84 *The English Drama* (3-3) Tupper  
The first half is concerned principally with the drama of Shakespeare's contemporaries. The second half is a historical survey from 1660 to the present day. (Not offered in 1946-47.)  
English 183x—same as English 183, but offered winter term. Morning.
- 199-200 *Proseminar: Readings for the English Literature Major* (3-3) Stone, Tupper  
Conferences and group discussions. Afternoon and evening sections.

## THIRD GROUP

- 201-2 *Methods and Materials in Elizabethan Research* (3-3)  
Open only to the graduate student. Admission by permission of the instructor. (Not offered in 1946-47.)
- 221 *Studies in Medieval Literature* (3) Stone  
Prerequisite: English 121-22. Evening.
- 223-24 *Old English* (3-3) Stone  
English language and literature before 1100. (Not offered in 1946-47.)
- 235-36 *Studies in Shakespeare and His Contemporaries* (3-3) Tupper  
Prerequisite: English 135-36. Evening.
- 241-42 *Studies in Neoclassical Literature* (3-3) Smith  
Prerequisite: English 141-42. (Not offered in 1946-47.)
- 244 *Studies in Eighteenth Century Drama* (3) Stone  
Prerequisite: English 183-84. Evening.
- 251-52 *Studies in the Romantic Movement* (3-3) Smith  
Prerequisite: English 151-52. Evening.
- 261-62 *Studies in Victorian Literature* (3-3) Shepard  
Prerequisite: English 161-62. (Not offered in 1946-47.)
- 271-72 *Seminar: American Literature* (3-3) Bolwell  
Prerequisite: English 171-72 or the equivalent. Evening.

- 295-96 *History of English Literary Criticism (3-3)* Smith  
Open to the undergraduate with the approval of the instructor. (Not  
offered in 1946-47.)
- 299-300 *Thesis (3-3)* The Staff

RELATED COURSE IN ANOTHER DEPARTMENT

Education 136, *Teaching of English*

## GEOGRAPHY

Louis Otto Quam, Ph.D., *Associate Professor of Geography, Executive Officer*

*The major.*—Prerequisite: Geography 1-2. Required: twenty-four credit hours in Geography and fifteen credit hours in one of the following departments: Botany, Economics, Geology, History, Political Science, or Statistics. Strongly recommended: Economics 101, Statistics 115-16.

### FIRST GROUP

- 1-2 *Elements of Geography* (3-3) Quam  
Physical elements, the human habitat, natural and cultural regions, pattern of occupancy of earth, and utilization of its resources. Morning and evening sections.  
Geography 1x—same as Geography 1, but offered winter term.  
Morning and evening sections.  
Summer term 1946—Geography 2 (3).

### SECOND GROUP

- 101 *Anglo-America\** (3) Quam  
United States, Canada, Alaska, and Greenland. 1946-47 and alternate years, morning.
- 102 *Latin America\** (3) Quam  
1946-47 and alternate years, morning.
- 105 *Northwest Europe\** (3) \_\_\_\_\_  
1946-47 and alternate years, evening.
- 106 *Mediterranean Area\** (3) \_\_\_\_\_  
1946-47 and alternate years, evening.
- 107 *Eastern and Southern Asia\** (3) Quam  
1947-48 and alternate years, evening.
- 108 *Southwestern Asia and Soviet Union\** (3) Quam  
1947-48 and alternate years, evening.  
Summer term 1946.
- 111-12 *Economic Geography* (3-3) \_\_\_\_\_  
Description and interpretation of the economic utilization of earth regions. Location of natural resources, staple crops, and industry; the trade relations resulting therefrom. (Not offered in 1946-47.)  
Summer term 1946.

\* Physical, political, economic, and regional survey.



- 115 *Conservation of Natural Resources* (3) Quam  
Principles and problems of conservation of soil, forest, minerals, wild life, and water. (Not offered in 1946-47.)

- 121-22 *Political Geography* (3-3) —————  
Spatial structure and growth of states; the interplay between geographic factors and political institutions in the formation of foreign policies. Morning.  
Summer term 1946—Geography 122(3).

- 142 *Regional Climatology* (3) Quam  
Survey of climatic regions of the world and the controlling factors of world weather. Afternoon.

- 145 *Physiography* (3) Quam  
An interpretive study of relief features with special reference to the United States. Afternoon.

- 171-72 *Historical Geography of North America* (3-3) Quam  
Development of the cultural landscape. The sequence of occupation of the major geographic regions. (Not offered in 1946-47.)

THIRD GROUP

- 201-2 *Seminar in Geography* (3-3) Quam  
Content varied from term to term. History and philosophy of geography or detailed treatment of some branch of geography. Time to be arranged.

- 213-14 *Seminar in Regional Planning* (3-3) The Staff  
A seminar coordinated by a member of staff, which will be a synthesis of contributions made by available government specialists. Time to be arranged.

- 241-42 *Research* (arr.) The Staff  
Special problems in geomorphology, climatology, cartography, field geography, land utilization, economic geography, historical geography. Time and credits to be arranged.

- 275 *Seminar: Geographic Factors in Foreign Policy* (3) —————  
A study of resources, people and geo-political problems of selected nations or empires. Evening.  
Summer term 1946.

- 299-300 *Thesis* (3-3) The Staff

## GEOLOGY

\_\_\_\_\_, *Assistant Professor of Geology*

*Minimum requirements for the major.*—Twenty-four credit hours of geology beyond the first-group courses.

### FIRST GROUP

**5 *Field Geology* (6)**

Field trips to neighboring localities of geological interest, with classroom study. (Not offered in 1946-47.)

**21-22 *Physical and Historical Geology* (3-3)**

Survey course covering the principles of physiography, geology, and mineralogy. (Not offered in 1946-47.)

### SECOND GROUP

**121-22 *Paleontology* (3-3)**

Lectures and laboratory work on classification and structure of fossil invertebrates, vertebrates, and plants, including their use as guide fossils in stratigraphic geology. (Not offered in 1946-47.)

**123-24 *Regional Geology of North and South America* (3-3)**

Lectures and map work on the physiographic regions of the Western Hemisphere, stressing the relationship between geology and geography and culture. (Not offered in 1946-47.)

**125-26 *Regional Geology of the Eastern Hemisphere* (3-3)**

Alternating with Geology 123-24 and with it completing a survey of the world. (Not offered in 1946-47.)

### THIRD GROUP

**215-16 *Seminar* (3-3)**

Detailed study and presentation by the class and instructor of some phase of geology with review of current literature. (Not offered in 1946-47.)

**227-28 *Research***

Original work on individual problems, including a digest of the published record. (Not offered in 1946-47.)

**299-300 *Thesis* (3-3)**

(Not offered in 1946-47.)

## GERMANIC LANGUAGES AND LITERATURES

Edward Henry Sehrt, Ph.D., *Professor of German, Executive Officer*  
 Gretchen Louisa Rogers, Ph.D., *Assistant Professor of German*  
 Wolfram Karl Legner, Ph.D., *Assistant Professor of German*

*Minimum requirements for the major.*—Twenty-four credit hours of German beyond first-group courses.

### FIRST GROUP

†1-2 *First-year German (3-3)* Rogers, Legner  
 The essentials of German grammar; translation of easy prose. Morning and evening sections.  
 Summer term 1946.

†5-6 *Second-year German (3-3)* Rogers, Legner  
 Selections from modern German prose; review of grammar. Prerequisite: German 1-2 or two years of high school German. Morning and evening sections.  
 Summer term 1946.

### SECOND GROUP

†101-2 *Rapid Readings in Modern German Prose (3-3)* Sehrt and Staff  
 Morning and evening sections.

†103-4 *Goethe's "Faust" (3-3)* Sehrt  
 Evening.

†105-6 *German Classicism (3-3)* Sehrt  
 Particularly the works of Goethe and Schiller. Time to be arranged.

†107-8 *Advanced Prose Composition (1-1)* Rogers  
 Morning and evening sections.

109-10 *German Drama since 1800 (3-3)* Sehrt  
 Dramas of Kleist, Grillparzer, Hebbel, and Hauptmann. Time to be arranged.

†111-12 *The German Romantic Movement (3-3)* Sehrt  
 Time to be arranged.

†113-14 *Scientific German (1-1)* Legner  
 Prerequisite: German 5-6 or the equivalent. Evening.

†119-20 *Survey of German Literature (3-3)* Sehrt  
 (Not offered in 1946-47.)

†121-22 *Conversation and Composition (3-3)* Rogers  
 Prerequisite: German 5-6 or the equivalent. Evening.



## THIRD GROUP

- †201-2 *Middle High German* (3-3) Seht  
Time to be arranged.
- †205-6 *Gothic* (3-3) Seht  
Introduction to the comparative study of the Germanic languages.  
Time to be arranged.
- †209-10 *Old High German* (3-3) Seht  
Time to be arranged.
- 213-14 *Old Norse* (3-3) Seht  
Time to be arranged.
- 215 *The German "Novelle"* (3) Rogers  
Time to be arranged.
- 218 *The German Lyric from Opitz to Rilke* (3) Legner  
Time to be arranged.
- 221 *Introduction to Linguistics* Seht  
Linguistics and comparative philology. Admission by permission of  
the instructor. Time and credits to be arranged.
- 222 *Indo-European Languages* Seht  
Application of the laws of sound change in language; origin and de-  
velopment of suffixes and inflections; syntax. Time and credits to be  
arranged.
- †223-24 *Sanskrit* (3-3) Seht  
Introduction to comparative Indo-European grammar. Time to be  
arranged.
- 299-300 *Thesis* (3-3) The Staff

## HEALTH ADMINISTRATION

Daniel LeRay Borden, A.M., M.D., *University Surgeon, Director*  
Robert Howe Harmon, A.B., M.D., *University Physician*  
Ronald Atmore Cox, A.B., M.D., *Associate University Physician (Eye)*  
Jeter Carroll Bradley, M.D., *Associate University Physician (Nose and Throat)*

\*Charles Seymour Coakley, M.D., *Associate University Physician*  
Richard Bernard Castell, A.B., M.D., *Associate University Physician*  
William Duvall Claudy, A.B., M.D., *Associate University Physician*  
Elizabeth Kahler, B.S., A.M., M.D., *Associate University Physician*

The payment of the University fee entitles the student to health services hereinafter described. Through student reports and those of University officials, the University attempts to keep informed as to all cases of illness among its students. This service is primarily diagnostic in its intent. It also provides first aid in the event of an emergency.

Medical privileges include: (1) the physical examination of every student entering from secondary school;† (2) three visits by the University physician or surgeon, office or residence (District of Columbia) in any one illness, exclusive of a specialist, surgical operation, laboratory, or X-ray examination; (3) hospitalization, including board, routine medicine, and nursing in the University Hospital for not more than two weeks during a school year—the necessity to be determined by the Director of Health Administration. The duration of hospitalization period (maximum, two weeks) is also to be determined by the Director of Health Administration.

This medical benefit does not apply to illness or disability incurred previous to the University term or prior to payment of the University registration fee.

The student is allowed, if he so desires, to engage physicians and nurses of his own choice, but when he does so he will be responsible for the fees charged.

Rules: (1) The Director of Health Administration is empowered to limit or deny the medical benefits where, in his discretion, a student has, by his misconduct or breach of the rules of the University, made himself ineligible; (2) the Director of Health Administration has authority to determine the necessity and length of hospitalization; (3) a student who has severed his connection with the University is ineligible for medical benefits; (4) a student intending to train for an athletic team is required to pass a thorough examination at the beginning of each term; (5) the above regulations apply also during the summer term of the University.

The University is not responsible for injuries received in inter-collegiate or intra-mural games, or in any of the activities of the physical education departments.

\* On war leave 1946-47.

† A charge of \$2 is made by the University if a student fails to appear for a physical examination during the period set for this purpose.

## HISTORY

Elmer Louis Kayser, Ph.D., *Professor of European History*  
 Lowell Ragatz, Ph.D., *Professor of European History*  
 Alva Curtis Wilgus, Ph.D., *Professor of Hispanic American History*  
 Wood Gray, Ph.D., *Professor of American History, Executive Officer*  
 Howard Maxwell Merriman, Ph.D., *Associate Professor of American Diplomatic History*  
 Myron Law Koenig, Ph.D., *Associate Professor of American History*  
 George Howland Cox, *Lecturer on Hispanic American History*  
 Robert Francis Campbell, A.M., *Associate in American History*

*The major.*—Prerequisite: History 39-40 and 71-72. The major indicates a knowledge of four fields of history selected from the following list, attested by major examinations: (1) the literature and method of history (required); (2) backgrounds of the modern world, to 1500; (3) modern and contemporary Europe; (4) diplomatic history and modern imperialism; (5) development of the United States; (6) Hispanic American civilization. A six-hour research seminar, exclusive of History 199-200, is a required part of each major's program to give training in fundamental techniques. For details of courses and readings offering preparation for the major examinations see the pamphlet on this subject or consult the adviser.

### FIRST GROUP

39-40 *The Development of European Civilization* Kayser  
 (3-3)

Primarily for freshmen. Fall term: the political, social, economic, and cultural history of the Old World from ancient times to 1500; Winter term: from 1500 to the present. Morning and evening sections.

Summer term 1946.

71-72 *The Development of American Civilization* Koenig  
 (3-3)

Primarily for sophomores. Fall term: the political, social, economic, and cultural forces of the United States in their world setting from 1492 to 1865; winter term: from 1865 to the present. Morning and evening sections.

Summer term 1946. Campbell, Gray.

### SECOND GROUP \*

120 *Intellectual Aspects of the Renaissance and the Reformation* (3) Kayser

Aspects of the development of the modern mind approached through a study of the lives and contributions of outstanding personalities of the period. (Not offered in 1946-47.)

\* For each course in the second group, the appropriate course in the first group is prerequisite.



- 130 *Nationalism* (3) Kayser  
The historical evolution of modern nationalism. (Not offered in 1946-47.)
- 140 *Modern Imperialism* (3) Ragatz  
Africa, Asia, and the Pacific Basin in the nineteenth and twentieth centuries. Morning.
- 141 *Africa and Europe in the Nineteenth and Twentieth Centuries* (3) Ragatz  
(Not offered in 1946-47.)
- 142 *Asia and the Western World in the Nineteenth and Twentieth Centuries* (3) Ragatz  
(Not offered in 1946-47.)
- 143 *Modern Europe, 1815-1919* (3) Ragatz  
A comprehensive survey of Old World history from the Congress of Vienna to the outbreak of the First World War. Evening.
- 144 *World Affairs, 1919-1947* (3) Ragatz  
Evening.
- 146 *History of Russia* (3) \_\_\_\_\_  
Main currents in economic, social, and political developments and world relations from the emergence of the Russian nation to the present time.  
Summer term 1946.
- 147 *Economic History of Europe* (3) Ragatz  
A survey from ancient times to the present day. Morning.
- 148 *The Second World War and Reconstruction* (3) Ragatz  
(Not offered in 1946-47.)
- 149 *European Diplomatic History* (3) \_\_\_\_\_  
Diplomatic relations of the European states from the Congress of Vienna to the present.  
Summer term 1946.
- 151-52 *English History* (3-3) Ragatz  
A general survey course. Evening.
- 161-62 *Hispanic American Civilization* (3-3) Wilgus  
Development of political, economic, social, and institutional affairs of the Ibero-American colonies (fall term) and the period since independence (winter term). Evening.  
History 161x—same as History 161, but offered winter term. Morning.  
History 162x—same as History 162, but offered fall term. Morning.  
Summer term 1946—History 162 (3).

- 163-64 *Pan American Problems* (3-3) Wilgus  
Morning.  
Summer term 1946—History 163 (3).
- 165 *The United States and Latin America* (3) Wilgus  
(Not offered in 1946-47.)
- 167-68 *Inter-American Relations* (2-2) Cox  
Lectures on social, educational, political, and commercial affairs and trends of the Americas. Open to the public as auditors without credit. Sponsored by the Inter-American Center. Afternoon and evening sections.
- 171-72 *Social History of the United States* (3-3) Gray  
Daily life, institutions, intellectual and artistic achievements. Fall term: the Agrarian Era, 1607-1861; winter term: the Urban-Industrial Era, 1861 to the present time. Morning and evening sections.
- 174 *Economic History of the United States* (3) Gray  
Main trends in the development of American agriculture, industry, and trade since 1607, with emphasis on tendencies and problems since the Civil War. Morning.  
Summer term 1946.
- 175 *Representative Americans* (3) Gray  
A biographical approach to national history. Some fifty significant and pivotal personalities in the development of the United States in government, business, science, religion, journalism, the arts, and social reform. Morning.
- 181-82 *Diplomatic History of the United States* Merriman  
(3-3)  
Tendencies toward isolation, expansion, and collectivism; disputes with foreign countries and their settlement; and the activities of the American secretaries of state and diplomatic agents. Fall term: to the Civil War, winter term: since the Civil War. Morning and evening sections.  
Summer term 1946.
- 184 *Overseas Expansion of the United States* (3) Merriman  
The political, economic, social, and cultural life of our outlying possessions. Morning.
- 185 *Canada and the United States* (3) Merriman  
The historical background and main trends in the relationship of the two English-speaking peoples of North America. Morning.
- 191-92 *Current History* (1-1) Kayser  
Contemporary events in their world setting. Morning.
- 199-200 *Proseminar: The Literature and Method of History* (3-3) Kayser and Staff  
Limited to majors in history. Fall term: history and historians; winter term: supervised reading in preparation for the major examinations. Evening.

## THIRD GROUP\*

- 241-42 *Seminar in Modern European History (3-3)* Ragatz  
The opening of Africa in the nineteenth and twentieth centuries.  
Evening.
- 249-50 *Reading Course in Second World War and Reconstruction (3-3)* Ragatz  
Primarily for graduate students. Evening.
- 261-62 *Seminar in the History of the Americas (3-3)* Wilgus  
Evening.
- 265-66 *Reading Course in Hispanic American Historiography (3-3)* Wilgus  
Primarily for graduate students. Evening.
- 271-72 *Seminar in History of the United States (3-3)* Gray  
The history and problems of the old and new South. Evening.
- 281-82 *Seminar in the Diplomatic History of the United States (3-3)* Merriman  
Evening.
- 285-86 *Reading Course in the Diplomatic History of the United States (3-3)* Merriman  
Primarily for graduate students. Evening.
- 291-92 *Seminar (3-3)* The Staff  
Prerequisite: approval of the Department. Time to be arranged.
- 299-300 *Thesis (3-3)* The Staff  
Required of all candidates for the Master's degree specializing in history.

\* Approval of the instructor is required for registration in each third-group course.



## HOME ECONOMICS

Frances Kirkpatrick, A.M., *Professor of Home Economics, Executive Officer*

Kathryn Mildred Towne, A.M., *Associate Professor of Home Economics*

Margaret Olive Osborn, M.S., *Assistant Professor of Home Economics*

Ruth Ann Wells, B.S., *Associate in Home Economics*

*Minimum requirements for the degree.—See pages 119, 120.*

### FIRST GROUP

- 1 *Food Selection and Preparation* (3)
The Staff

Composition, selection, and preparation of food; analysis of recipes; standard products; planning, preparing, serving, and estimating the cost of meals. Material fee, \$12.50. Morning and afternoon sections. Home Economics 1x—same as Home Economics 1, but offered winter term. Evening.
- 5 *Food Preparation for Navy Nurses* (3)
Osborn

Morning.
- 22 *Clothing: Its Selection, Cost, and Care* (3)
Towne

Clothing selection—the economic, aesthetic, and hygienic aspects; the application of the principles of color and design to individual selection; the care of clothing. Morning.
- 45 *Review of Physiology for Navy Nurses* (2)
Osborn

Morning.
- 47 *Review of Biochemistry for Navy Nurses* (3)
Osborn

Afternoon.
- 51 *Family Meals* (3)
Kirkpatrick

The choice, purchase, preparation, and service of foods; dietary standards, food habits, and the nutritional needs of the family; problems of purchasing, care, and use of food by the consumer. Material fee, \$7.50. Lecture (2 hours), laboratory (3 hours)—morning.
- 52 *Food Problems* (3)
Kirkpatrick

Factors affecting the preparation of standard products from the experimental viewpoint; principles of food demonstrations. Material fee, \$12.50. (Not offered in 1946-47.)
- 54 *Family Health and Household Sanitation* (3)
Kirkpatrick

Home hygiene and home care of the sick; the principles of household sanitation in relation to health and disease. Material fee, \$4. Afternoon.

- 55 *Nutrition and Its Relation to Health* (3) Kirkpatrick  
Open to men and women. A course in nutrition for students not majoring in Home Economics. Morning.
- 62 *Clothing Construction* (3) Towne  
Techniques of construction suitable for cotton, wool, and rayon fabrics; the use of commercial patterns and their alteration; the proper selection of color, design, and fabric. Material fee, \$4.00. Morning and afternoon sections.  
Home Economics 62x—same as Home Economics 62, but offered fall term. Evening.
- 71 *Costume Design and Fashion Economics* (3) Towne  
Factors determining fashions and effect on cost of clothing; problems of the consumer of textiles and clothing; historic costume and its relation to modern dress. Material fee, \$3. (Not offered in 1946-47.)
- 72x *Household Textiles* (3) Towne  
Properties, uses, and tests of the different textile fibers and fabrics, and development of judgment and knowledge of standard for the consumer of clothing and house-furnishing material. Material fee, \$3. Morning.
- 75 *Meal Planning and Service for Navy Nurses* (2) Towne  
Planning, preparation, and service of meals of various kinds. Other students admitted by permission of the instructor. Morning.
- 76 *Sanitation* (3) Towne  
Study of sanitary problems in relation to foods and equipment. For Navy Nurses. Other students admitted by permission of the instructor. Morning.
- 77 *Marketing* (3) Osborn  
Purchasing of foods as it relates to the home and to the institution. Afternoon.

## SECOND GROUP

- 102 *Advanced Food Preparation* (3) Kirkpatrick  
The application of the fundamental processes of food preparation to a wider range of food materials and various services for different occasions. Material fee, \$12.50. Morning.  
Home Economics 102x—same as Home Economics 102, but offered fall term. Evening.
- 106 *Quantity Cookery for Navy Nurses* (3) The Staff  
Morning and afternoon sections.
- 123 *Household Finance and Problems of the Consumer* (3) Towne  
Economic problems of the family in modern industrial society; family income; income apportionment and household expenditures; laws affecting the home; investments; consumer buying. Afternoon.

- 143x *Advanced Clothing Construction* (3) Towne  
Problems of clothing construction, including renovation, flat pattern designing. Material fee, \$4. Evening.
- 152x *Nutrition* (3) Kirkpatrick  
Principles of normal and abnormal human nutrition; calculation and preparation of dietaries. Material fee, \$3. Afternoon.
- 154 *Diet Therapy* (3) Osborn  
Study of nutrition as applied to diet and disease. Morning.
- 156 *Special Diet Preparation* (3) Osborn  
Writing, calculation, and preparation of special diets. Material fee, \$4. Afternoon.
- 164 *Child Nutrition* (3) Kirkpatrick  
Basic principles in nutrition and growth of the infant, pre-school, and adolescent child in health and disease. (Not offered in 1946-47.)
- 168 *Institutional Management* (3) Osborn  
Study of the organization, equipment, and marketing problems of institutions. Afternoon.
- 171 *House Furnishing* (3) Towne  
Home planning from the historic, artistic, economic, and sanitary viewpoints; home furnishings such as linens, dishes, floor coverings, mattresses, etc. Material fee, \$3. Afternoon.
- 181x *The Child in the Home* (3) Kirkpatrick  
Care and development of children; parent-child relationships. Lecture (2 hours)—morning; field work—to be arranged.
- 192 *The Home, Its Management and Equipment* (3) Kirkpatrick  
Economical management of the home; distribution of time and energy; problems in the selection, arrangement, and care of equipment. (Not offered in 1946-47.)
- 193 *Supervision of Home Management* (3) The Staff  
Field work under supervision. Designed to meet requirements of those preparing to teach in federally-aided schools. Time to be arranged.
- 194 *Proseminar: Diet Therapy* (1) Osborn  
Study of the most recent materials of nutrition and diets. Afternoon.
- 195-96 *Special Problems* (3-3) The Staff  
Individual investigation or study under the guidance of a member of the staff. Suggested problems are: home economics education, marketing, tailoring, and draping. Program and conferences arranged with an instructor.
- 197-98 *Proseminar* (3-3) The Staff  
The study of the most recent materials and problems in the various phases of home economics. Evening.



## JOURNALISM

John William Thompson, Jr., A.B., *Lecturer in Journalism*  
Philip Hampton Love, *Lecturer in Journalism*

### FIRST GROUP

- 11-12 *Journalism Survey (3-3)*  
History of journalism; survey of character and content of leading newspapers to develop intelligent reading necessary for future work in journalism; practice in news writing. Laboratory fee, \$3 a term. (Not offered in 1946-47.)

### SECOND GROUP

- 111-12 *Reporting (3-3)* Thompson, Love  
Techniques of newspaper reporting and copy reading; instruction and practice in modern methods of gathering and presenting news. Prerequisite: English 1-2 and permission of the instructor. Laboratory fee, \$3 a term. Morning and evening sections.

- 113-14 *Reporting of National and International Affairs (3-3)*  
Training in the coverage and presentation of national and international news; special consideration of the qualifications necessary for Washington correspondence and press-association reporting. Prerequisite: Journalism 111-12 or the equivalent. Laboratory fee, \$3 a term. (Not offered in 1946-47.)

- 121-22 *Feature Writing (3-3)*  
Instruction and practice in the writing of special feature articles. Material for which is obtained through independent investigation. Prerequisite: Journalism 111-12 or the equivalent. (Not offered in 1946-47.)

- 141-42 *Advertising (3-3)*  
The objectives and methods of advertising from its beginning to the present; training in the writing and selling of advertising as practiced in newspaper, magazine, radio, and other fields. (Not offered in 1946-47.)

- 151-52 *Editorial Writing (3-3)*  
Current events from the standpoint of editorial interpretation; editorial research methods; instruction and practice in the writing of editorials, and columns on public affairs. Prerequisite: Journalism 111-12 or the equivalent. (Not offered in 1946-47.)

## LAW

William Cabell Van Vleck, A.B., LL.B., S.J.D., *Professor of Law*  
*Executive Officer*

Charles Sager Collier, A.B., LL.B., S.J.D., *Professor of Law*  
 Hector Galloway Spaulding, B.S., LL.B., S.J.D., *Professor of Law*

\*William Thomas Fryer, A.B., LL.B., J.D., *Professor of Law*

Saul Chesterfield Oppenheim, A.M., J.D., S.J.D., *Professor of Law*

Carville Dickinson Benson, A.B., LL.B., S.J.D., *Professor of Law*

\*James Forrester Davison, A.B., LL.M., S.J.D., *Professor of Law*

James Oliver Murdock, Ph.B., LL.B., *Professor of Law*

\*John Albert McIntire, A.B., LL.B., *Professor of Law*

John Sentmas Strahorn, Jr., A.B., LL.B., S.J.D., J.S.D., *Visiting Professor of Law*

Lloyd Hall Sutton, B.S., LL.B., *Adjunct Professor of Law*

Conway Peyton Coe, A.B., LL.B., *Adjunct Professor of Law*

Levi Russell Alden, A.M., LL.B., *Adjunct Professor of Law*

George Bowdoin Craighill, A.B., LL.B., *Adjunct Professor of Law*

James Ward Morris, A.B., *Adjunct Professor of Law*

James Robert Kirkland, A.B., LL.M., *Adjunct Professor of Law*

Elmer Mayse Million, A.B., LL.B., J.S.D., *Professorial Lecturer in Law*

Edward Schaad Stimson, B.S., A.M., J.D., S.J.D., *Professorial Lecturer in Law*

\*William Randall Compton, M.B.A., LL.B., J.S.D., *Associate Professor of Law*

\*Chester Charles Ward, B.S., LL.M., *Associate Professor of Law*

†Clarence Altha Miller, LL.M., *Lecturer in Law*

Justin Lincoln Edgerton, A.B., LL.B., *Lecturer in Law, Clerk of the Moot Court*

Jay Wesley Murphy, A.B., J.D., LL.M., *Lecturer in Law*

### 101 *Agency (4)*

Problems of agency in the conduct of business. Morning.  
 Summer term 1946.

### 105 *Civil Procedure (4)*

Function and composition of pleadings, including their relation to proof. Emphasis is upon reforms, as exemplified by modern code provisions and the Federal Rules of Civil Procedure. Clark, *Cases on Pleading and Procedure*, 2d ed. Morning and evening sections.

\* On war leave 1946-47.

† On leave of absence 1946-47.

- 111 *Contracts* (4) Spaulding  
Promissory obligation: offer and acceptance, consideration, statute of frauds, formal instruments, rights of third parties, assignments, and joint obligations. Williston, *Cases on Contracts*, 4th ed. Morning and evening sections.  
Summer term 1946.
- 123-24 *Criminal Law and Procedure* (2-2) Murdock  
Elements of criminal liability; specific crimes; combinations of persons in crime; criminal procedure. Harno, *Cases and Materials*. Morning and evening sections.
- 129 *Judicial Process I* (2)  
Benson and Fryer, *Readings on the Study of Law and the Anglo-American Legal System*. Morning and evening sections.
- 133 *Property I* (4) Benson  
Concepts of property, possession and ownership, and of legal relations with respect to chattels and documentary intangibles created by gift, sale, pledge, lien, bailment, etc. Larremore, *Cases on Property*; Fryer, *Readings on Personal Property*, 3d ed. Morning.  
Summer term 1946.
- 138 *Property II* (4) Benson  
Real property; introduction; estates, seisin, landlord and tenant; future interests at common law and under the statutes of uses and wills; merger; elementary study of remoteness and powers; adverse possession; prescription; natural rights. Fraser, *Cases on Property*, Vol. I and II. Morning and evening sections.
- 142 *Torts* (4) Van Vleck  
Civil liability for harms to legally protected interests. Thurston and Seavey, *Cases on Torts*. Morning and evening sections.
- 213 *Constitutional Law I* (4) Collier  
Historical introduction; judicial approach and methods; doctrine of the separation of powers; powers of the National Government; the federal system; relation of the state courts and the federal courts. Dodd, *Cases on Constitutional Law*, 3d ed. Morning and evening sections.  
Summer term 1946.
- 231 *Equity* (4) Spaulding  
Specific performance of contracts; equitable conversion; statute of frauds; mutuality; conditions; defenses; equitable servitudes; powers of an equity court; effect of decrees. Cook, *Cases on Equity*, 1 volume 3d ed. Morning and evening sections.
- 241 *Property III* (2) Benson  
Conveyances, rents, easements, profits, licenses, covenants running with the land, and recording. Morning and evening sections.
- 242 *Evidence* (4)  
Functions of court and jury; witnesses: hearsay, opinion, and circumstantial evidence; proof of authenticity; and contents of writings. Tracy, *Cases and Materials on Evidence*; Clark, *Cases on Pleading and Procedure*, 2d ed. Morning and evening sections.



- 246 *Negotiable Instruments* (4) Oppenheim  
Bills of exchange, promissory notes and checks, especially under the Negotiable Instruments Law. Britton, Cases on Negotiable Instruments. Morning and evening sections.  
Summer term 1946.
- 251 *Quasi Contracts* (2)  
Legal remedies for restitution of benefits obtained or conferred by performance of contract, misrepresentation, mistake, and coercion. Thurston, Cases on Restitution. (Not offered in 1946-47.)
- 254 *Wills* (2) Benson  
Formation and revocation of wills; testate and intestate succession. Morning and evening sections.
- 262 *Security Transactions* (4)  
Security interests in real and personal property, their creation, transfer, enforcement, and extinguishment, together with security problems in the fields of suretyship and bankruptcy.  
Summer term 1946.
- 304 *Administrative Law I* (4) Collier  
Legislative setting for administrative bodies; judicial control of administrative action, public utilities, taxation, alien laws. Federal Trade Commission, workmen's compensation, etc. Stason, Cases on Administrative Law. Morning and evening sections.
- 312 *Business Associations I* (4) Spaulding  
Forms of business associations; legal requirements as to contributions of capital; powers and rights of corporations, corporate officials, and shareholders. Frey, Cases on Business Associations. Morning and evening sections.
- 315 *Conflict of Laws* (4) Van Vleck  
Study of cases involving foreign elements; principles of jurisdiction and limitations upon its exercise; procedure, torts, workmen's compensation, contracts, property, family law, administration of estates, business associations. Cheatham, Dowling, Goodrich, and Griswold, Cases on Conflict of Laws, 2d ed. Morning and evening sections.  
Summer term 1946.
- 321-22 *Current Decisions* (2-2) Oppenheim  
Required of, and limited to, members of the student staff of the Law Review.
- 326 *Federal Jurisdiction* (2) Davison  
Constitutional origins and powers of federal courts; sources of law applicable to them; business and extent of jurisdiction of federal courts. Evening.
- 327 *Insurance* (2) Stimson  
Summer term 1946.
- 332 *Labor Law* (4)  
Legality of collective labor action, of ends sought and means used, strike, picketing, boycott, trade agreements; labor injunctions; scope of federal jurisdiction. Landis and Manoff, Cases on Labor Law. Evening.

- 333 *Legislation (2)* Davison  
A study of the problems and principles of legislation. Evening.

- 335-36 *Moot Court (2-2)* Craighill, Morris, Kirkland, Edgerton

Open only to students who have completed fifty credit hours. Prerequisite: Law 105 and 242. Evening.

- 345-46 *Patent Law (2-2)* Sutton  
Substantive patent law; patentability; revision, use, and enforcement of patents; Patent Office practice; Rules of Practice; appeal and interference procedure. Evening.

- 349-50 *Patent Moot Court (2-2)* Coe  
This course may be elected instead of Law 335-36 to satisfy the Moot Court requirement. Both subjects may not be counted toward a degree.

- 351 *Public Utilities (2)* Collier  
Limits of regulation of businesses affected with public interest; ascertainment of value of property used for the public service and the fixing of adequate rates of return. (Not offered in 1946-47.)

- 353 *Domestic Relations (2)*  
Marriage, annulment, and divorce; rights of husband and wife; rights of parent and child; infants; conflict of laws involving problems of marriage evasion and migratory divorce. Madden and Compton, *Cases on Domestic Relations*. (Not offered in 1946-47.)  
Summer term 1946. (Murphy).

- 357 *Sales (4)* Oppenheim

- 372 *Taxation (4)* Collier  
Emphasis on the federal estate tax and the federal income tax. Attention given state inheritance and income taxes. Problem of jurisdiction to tax, construction of tax statutes, methods of judicial review of administrative actions in the tax field, modern excise taxes on business concerns. Magill and Maguire, *Cases on Taxation*, 1941 ed. Morning and evening sections.

- 377 *Trade Regulation I (4)* Oppenheim  
Unfair trade practices, combination and monopoly at common law and under various statutes; trade-marks; business torts; Sherman Antitrust Act; Federal Trade Commission and Clayton Acts; marketing, price and patent practices; Fair Trade Acts; mergers; trade associations; remedies. Oppenheim, *Cases on Trade Regulation*. Morning and evening sections.

- 382 *Trusts (4)* Spaulding  
Nature, creation, elements, administration, termination, modification of trusts; charitable, resulting, construction trusts; liabilities of and to third persons; transfer of beneficiary's interest. Scott, *Cases on Trusts*, 3d ed. Morning and evening sections.

- 404 *Administrative Law II (4)*  
Research seminar course in special problems, including the study of specific administrative agencies, federal or state. Evening.

- 405 *Admiralty* (2) Alden  
Federal and state jurisdiction; jurisdiction over waters, craft, contracts, torts, crimes, in equitable matters, etc.; laws applicable to maritime workers and maritime liens. Sayre, *Cases on the Law of Admiralty*. Evening.
- 411 *Business Associations II* (4)  
Seminar: study of the historical background and functioning of the statutes involved in the work of the Securities and Exchange Commission.
- 415-16 *Comparative Law* (2) Murdock  
Historical and comparative study of some of the institutions and principles of the civil law (law of South and Central America and most of the Continent of Europe) compared with those of the common law; the influence of the former upon the latter. Morning and evening sections.
- 421 *Constitutional Law II* (4)  
Research seminar in contemporary problems in constitutional law; special emphasis on interstate-commerce cases and due process of law. (Not offered in 1946-47.)
- 426-27 *Municipal and Government Corporations* (2-2)  
Municipal corporations: organization, powers, functions and legal relations of local governmental units. Federal corporate agencies: organization, powers, functions, and legal relations of functional governmental units separately incorporated. Tooke and McIntire, *Cases on Municipal Corporations*.
- 431-32 *International Law* (2-2) Murdock  
Customary and treaty rights and duties of states; diplomatic and consular agents; treaty interpretation; nationality laws; international courts; claims procedure; war; neutrality. Hudson, *Cases on International Law*, 2d ed. Evening.
- 434 *Interstate Commerce Commission Law and Procedure* (2)  
Interstate Commerce Act; the Interstate Commerce Commission; practice and procedure before the Commission. (Not offered in 1946-47.)
- 435-36 *Jurisprudence* (2-2) Collier  
History of jurisprudence; schools of jurists, particularly the nineteenth century schools; sociological jurisprudence; theories of justice; the nature of law; law and morals; law and the state; the scope and subject matter of law, sources and forms of law; the traditional element; analysis of general legal conceptions. Hall, *Readings in Jurisprudence*. Evening.
- 452 *Trade Regulation II* (4) Oppenheim  
A research seminar in specific problems of trade regulation. Evening.



## MATHEMATICS

James Henry Taylor, Ph.D., *Professor of Mathematics, Executive Officer*  
 Francis Edgar Johnston, Ph.D., *Professor of Mathematics*  
 Florence Marie Mears, Ph.D., *Professor of Mathematics*  
 Nels David Nelson, Ph.D., *Assistant Professor of Mathematics*  
 Earl Larkin Williams, A.M., *Lecturer in Mathematics*  
 Joachim Weyl, Ph.D., *Lecturer in Mathematics*

*Minimum requirements for the major.*—Fifteen credit hours of mathematics beyond calculus, i.e., of approved second- and third-group courses other than Mathematics 111-12.

### FIRST GROUP\*

- |  |                  |
|--|------------------|
| <p>3 <i>College Algebra</i> (3)</p> <p>Exponents and logarithms; linear equations; complex numbers; quadratic equations; introduction to theory of equations; mathematical induction and the binomial theorem; permutations, combinations and probability; determinants; progressions. Prerequisite: one year each of high school algebra and high school geometry. Morning and evening sections.</p> <p>Mathematics 3x—same as Mathematics 3, but offered winter term. Morning and evening sections.</p> <p>Summer term 1946.</p> | <p>The Staff</p> |
| <p>6 <i>Plane Trigonometry</i> (3)</p> <p>Prerequisite: two years of high school algebra and one year of high school geometry, or Mathematics 3 (or concurrent registration therefor). Morning and evening sections.</p> <p>Mathematics 6x—same as Mathematics 6, but offered fall term. Morning and evening sections.</p> <p>Summer term 1946.</p>  | <p>The Staff</p> |
| <p>12 <i>Analytic Geometry</i> (3)</p> <p>Prerequisite: Mathematics 3 and 6, or two years of high school algebra, one year of high school geometry, and one-half year of high school trigonometry. Morning and evening sections.</p> <p>Mathematics 12x—same as Mathematics 12, but offered fall term. Morning and evening sections.</p> <p>Summer term 1946.</p>  | <p>The Staff</p> |
| <p>19 <i>Differential Calculus</i> (3)</p> <p>Prerequisite: Mathematics 12. Morning and evening sections.</p> <p>Mathematics 19x—same as Mathematics 19, but offered winter term. Morning and evening sections.</p> <p>Summer term 1946.</p>   | <p>The Staff</p> |

\* No first-group course in Mathematics is available for college credit if the student's previous training in Mathematics meets the prerequisite for a higher numbered course.

**20 Integral Calculus\* (3)**

The Staff

Prerequisite: Mathematics 19. Morning and evening sections.

Mathematics 20x—same as Mathematics 20, but offered fall term.

Morning and evening sections.

Summer term 1946

**SECOND GROUP\*****102 Fundamental Concepts of Mathematics (3)**

(Not offered in 1946-47.)

**111-12 Mathematics for Engineers and Scientists**

The Staff

(3-3)

Topics from theory of equations, advanced calculus, differential equations, vector analysis, complex variables, and probability. Morning and evening sections.

**123 Theory of Equations (3)**

Mears

Summer term 1946.

**125 Advanced Algebra (3)**

Johnston

(Not offered in 1946-47.)

**126 Advanced Analytic Geometry (3)**

Taylor

Evening.

**132 Differential Equations (3)**

Johnston, Mears

Evening.

Mathematics 132x—same as Mathematics 132, but offered fall term.

Morning.

Summer term 1946.

**134 Introduction to Boundary Value Problems (3)**

Prerequisite: Mathematics 132. (Not offered in 1946-47.)

**†135-36 Projective Geometry (2-2)**

(Not offered in 1946-47.)

**139 Advanced Calculus (3)**

Mears

Evening.

**140 Introduction to Analysis (3)**

Mears

Prerequisite: Mathematics 139. Evening.

**141 Introduction to Infinite Series (3)**

Mears

Evening.

**167 Fourier Series and Spherical Harmonics (3)**

Prerequisite: Mathematics 132. (Not offered in 1946-47.)

**171 Vector Analysis (3)**

Taylor

Evening.

Mathematics 171x—same as Mathematics 171, but offered winter term. Morning.

\* Mathematics 20 is prerequisite to all second-group courses.

## THIRD GROUP

- 220 *Theory of Numbers* (3)  
(Not offered in 1946-47.)
- †237-38 *Theory of Functions* (3-3)  
(Not offered in 1946-47.)
- 242 *Infinite Series* (3) Mears  
Prerequisite: Mathematics 141. Evening.
- 249 *Ordinary Differential Equations* (3)  
(Not offered in 1946-47.)
- 250 *Integral Equations* (3)  
(Not offered in 1946-47.)
- 255 *Differential Geometry* (3) Taylor  
Evening.
- 257 *Theory of Groups* (3)  
(Not offered in 1946-47.)
- †265-66 *Modern Algebra* (3-3) Johnston  
Evening.
- 268 *Calculus of Variations* (3)  
(Not offered in 1946-47.)
- 270 *Tensor Analysis* (3) Taylor  
Evening.
- 271 *Riemannian Geometry* (3)  
(Not offered in 1946-47.)
- 277 *Partial Differential Equations* (3) Weyl  
Evening.
- 297-98 *Reading and Research* (3-3) The Staff  
Time to be arranged.
- 299-300 *Thesis* (3-3) The Staff



## MECHANICAL ENGINEERING

Arthur Frederick Johnson, M.E., Ph.D., *Professor of Mechanical Engineering*

Frederick Morris Feiker, B.S. in E.E., D.Eng., *Professor of Engineering Administration*

Benjamin Carpenter Cruickshanks, B.S. in M.E., *Professor of Mechanical Engineering, Executive Officer*

Robert Gay Trumbull, B.S. in C.E., *Associate Professor of Mechanical Engineering*

Lloyd Butler Ritchey, B.S. in M.E., M.S. in Eng., *Assistant Professor of Mechanical Engineering*

*Minimum requirements for the major.*—See pages 101-2, 104-5.

### FIRST GROUP

- 1 *Engineering Survey and Orientation* (1) Cruickshanks and Staff  
Open to freshmen only. Afternoon and evening sections.
- 3 *Mechanical Drawing* (2) Trumbull, Ritchey  
Drafting-room fee, \$3. Drafting (6 hours)—morning, afternoon, and evening sections.  
Summer term 1946.
- 4 *Descriptive Geometry* (2) Trumbull  
Drafting-room fee, \$3. Drafting (6 hours)—morning, afternoon, and evening sections.  
Summer term 1946.
- 5 *Introductory Naval Architecture* (3)  
Nomenclature, functions, and arrangement of hull structure, equipment, and machinery for merchant vessels. Lectures supplemented by visits to shipyards. (Not offered in 1946-47.)
- 7 *Machine Drawing* (2) Trumbull  
Prerequisite: Mechanical Engineering 3 and 4. Drafting-room fee, \$3. Drafting (6 hours)—afternoon and evening sections.  
Summer term 1946.
- 8 *Mechanism Drawing* (2) Trumbull  
Prerequisite: Mechanical Engineering 3, 4, and 13. Prerequisite or concurrent registration: Mechanical Engineering 14. Drafting-room fee, \$3. Drafting (6 hours)—afternoon and evening sections.  
Summer term 1946.

**9-10 Ship Drafting (2-2)**

Fairing of lines; displacement, stability curves, midship section, general arrangements and structural detail plans, machinery details. Prerequisite or concurrent registration: Mechanical Engineering 15. Drafting-room fee, \$3 a term. (Not offered in 1946-47.)

**13-14 Mechanism (2-2)**

Trumbull

Prerequisite: Mathematics 12. Prerequisite or concurrent registration: Mathematics 19. Afternoon and evening sections. Summer term 1946.

**15-16 Elementary Ship Calculations (2-2)**

Form characteristics, detailed weights, displacement, transverse and longitudinal equilibrium, launching. Prerequisite: Mechanical Engineering 5. (Not offered in 1946-47.)

## SECOND GROUP

**101-2 Advanced Ship Calculations (2-2)**

Stabilizing, model basin practice, powering, steering, launching, hull strength, floodability, vibrations. Prerequisite: Mechanical Engineering 16. (Not offered in 1946-47.)

**103-4 Ship Design (2-2)**

Prerequisite: Mechanical Engineering 10, 16; prerequisite or concurrent registration: Mechanical Engineering 117. Drafting-room fee, \$3 a term. (Not offered in 1946-47.)

**111-12 Thermodynamics (3-3)**

Cruickshanks

With introductory study of laws of heat transmission. Prerequisite or concurrent registration: Mathematics 20. Morning and evening sections.

**115-16 Mechanical Laboratory (2-2)**

Cruickshanks

Calibration of instruments; calorimetry; testing of prime movers, auxiliaries, and combustion engines. Eight-hour boiler test required. Prerequisite: Mechanical Engineering 13-14 and 111-12. Laboratory fee, \$6 a term. Laboratory (6 hours)—afternoon and evening sections.

**117-18 Marine Engines and Auxiliaries (2-2)**

Details, arrangements and performance of steam uniflow, steam turbine, and Diesel propelling plants. Prerequisite or concurrent registration: Mechanical Engineering 5, 13-14, and 111-12. (Not offered in 1946-47.)

**126 Methods of Manufacture (2)**

Ritchey

Fixtures, gauging, tools, costs. Prerequisite: Mechanical Engineering 8 and 14; Civil Engineering 26. Evening.

**127-28 Machine Design (2-2)**

Johnson

With stress-analysis lectures. Prerequisite: Mechanical Engineering 112 and 126; Civil Engineering 25, 123, 136, and 141. Drafting-room fee, \$3 a term. Computation and drafting (6 hours)—afternoon and evening sections.

- 129-30 *Power Plants (3-3)* Cruickshanks  
Study of design layout, installation, and operation of power plants and equipment. Prerequisite: Mechanical Engineering 112. Evening.
- 131-32 *Heating, Ventilating, Air Conditioning, and Refrigeration (2-2)* Ritchey  
Prerequisite: Mechanical Engineering 112. Evening.
- 133 *Combustion Engines (2)* Ritchey  
Prerequisite: Mechanical Engineering 112; Civil Engineering 123 and 136; Electrical Engineering 10. Evening.
- 139 *Fluid Dynamics (3)* Johnson  
The theories of hydro- and aero-mechanics as influenced by density, viscosity, and turbulence. Prerequisite: Mechanical Engineering 112; Civil Engineering 140. Evening.
- 140 *Dynamics of Machinery (3)* Johnson  
Inertia effects, balancing, vibration phenomena. Prerequisite: Mechanical Engineering 115; Civil Engineering 123 and 136. Evening.
- 141-42 *Management Problems (2-2)* Feiker  
The handling and training of men. Prerequisite: Economics 1-2. Morning and evening sections.
- 145-46 *Management Controls (2-2)* \_\_\_\_\_  
Prerequisite: Economics 1-2; Business Administration 101, 102. Hours to be arranged.
- 147 *Industrial Labor Relations (2)* \_\_\_\_\_  
Prerequisite: Mechanical Engineering 141-42. Evening.
- 189-90 *Proseminar in Mechanical Engineering (1-1)* Johnson  
Evening



## MEDICINE

- Walter Andrew Bloedorn, A.M., M.D., *Professor of Medicine, Executive Officer*
- Coursen Baxter Conklin, A.M., M.D., *Clinical Professor of Medicine*
- Charles Robert Lee Halley, A.B., M.D., *Clinical Professor of Medicine*
- Paul Frederick Dickens, M.D., *Clinical Professor of Medicine*
- Harry Filmore Dowling, A.B., M.D., *Clinical Professor of Medicine*
- Robert Port Herwick, Ph.D., M.D., LL.B., *Adjunct Clinical Professor of Medicine*
- Joseph Thomas Roberts, M.D., Ph.D., *Adjunct Clinical Professor of Medicine*
- Thomas McPherson Brown, M.D., *Adjunct Clinical Professor of Medicine*
- Clark Harvey Yeager, M.D., Dr. P.H., *Professorial Lecturer on Tropical Medicine*
- Walter Kendall Myers, B.S., M.D., *Assistant Clinical Professor of Medicine*
- John Alton Reed, A.B., M.D., *Assistant Clinical Professor of Medicine*
- William Travis Gibb, B.S., M.D., *Assistant Clinical Professor of Medicine*
- Watson William Eldridge, Jr., M.D., *Associate in Medicine*
- Herman Solomon Hoffman, A.B., M.D., *Associate in Medicine*
- John Minor, A.B., M.D., *Associate in Medicine*
- Maurice Protas, A.B., M.D., *Associate in Medicine*
- John Watkins Trenis, M.D., *Associate in Medicine*
- A. Fife Heath, M.D., *Associate in Medicine*
- Elmer Fugitt, M.D., *Associate in Medicine*
- Pearl Holly, M.S., M.D., *Associate in Medicine*
- Benjamin Manchester, M.D., *Associate in Medicine*
- John Ellsworth Everett, A.B., M.D., *Associate in Medicine*
- Irving Wolfe Winik, M.D., *Associate in Medicine*
- Lawrence Jay Thomas, B.S., M.D., *Associate in Medicine*
- Richard Bernard Castell, A.B., M.D., *Clinical Instructor in Medicine*
- Luther Henry Snyder, A.B., M.D., *Clinical Instructor in Medicine*
- Emil Herbert Bauersfeld, A.B., M.D., *Clinical Instructor in Medicine*
- John Bayne Marbury, M.D., *Clinical Instructor in Medicine*
- Louis Ross, M.D., *Clinical Instructor in Medicine*
- William Kirkman Billingsley, Jr., A.B., M.D., *Clinical Instructor in Medicine*
- Carl Calvin Dauer, A.B., M.D., M.P.H., *Clinical Instructor in Medicine*

- Simon Weiner, B.S., M.D., *Clinical Instructor in Medicine*  
 Clarence Richard Hartman, A.B., M.D., *Clinical Instructor in Medicine*  
 Lawrence Elias Putnam, A.B., M.D., *Clinical Instructor in Medicine*  
 Ruth Benedict, A.B., M.D., *Clinical Instructor in Medicine*  
 James Theodore Burns, M.D., *Clinical Instructor in Medicine*  
 Frederic Dunbar Chapman, A.B., M.D.C.M., *Clinical Instructor in Medicine*  
 Irvin Kerlan, B.S., M.D., C.P.H., *Clinical Instructor in Medicine*  
 Virginia Patterson Beelar, A.B., M.D., *Clinical Instructor in Medicine*  
 Paul Fleming-Holland, M.D., *Clinical Instructor in Medicine*  
 James Joseph Feffer, A.B., M.D., *Clinical Instructor in Medicine*  
 Myer Harold Stolar, B.S., M.D., *Clinical Instructor in Medicine*  
 Sidney Olansky, M.D., *Clinical Instructor in Medicine*  
 Alfred Emanuel Briglio, M.D., *Clinical Instructor in Medicine*  
 Lester Sylvan Blumenthal, A.B., M.D., M.S. in Med., *Clinical Instructor in Medicine*  
 Samuel Jacob Nathan Sugar, Phar.G., M.D., *Clinical Instructor in Medicine*  
 Roy Hertz, Ph.D., M.D., *Clinical Instructor in Medicine*  
 Joseph Ney, B.S., M.D., *Clinical Instructor in Medicine*  
 Harold Lester Hirsh, M.D., *Clinical Instructor in Medicine*

232 *History of Medicine*

Halley

One hour a week.

236 *Laboratory Medicine and Hematology*

Holly

Lectures and laboratory work covering aspects of laboratory diagnosis of disease, including a study of: urinalysis, blood counting, the anemias, leukemias, and other blood dyscrasias. Examination of exudates, transudates, stomach contents, spinal fluids, and stools also emphasized. Three hours a week.

241-42 *Physical Diagnosis*

Conklin and Staff

Demonstrations and practice on the normal and abnormal subject; designed to cover the entire subject of physical diagnosis.

244 *General Medicine*

Bloedorn, Halley

Lectures covering general aspects of all phases of medical disease, and including therapeutics. Three hours a week.

312 *Radiology and Radiotherapy*

The Staff

One hour a week.

324 *Clinical Physiology*

Dickens

Lectures and clinics for the correlation of preclinical and laboratory studies of physiology with altered function as observed in clinic and ward. One hour a week.

- 325-26 *Clinical Clerkship* Dowling and Staff  
Individual case work under strict supervision (student's histories generally accepted as hospital records). Emergency and Gallinger hospitals.
- 327-28 *Clinical Pathological Conference* Bloedorn, Choisser  
Required in the third and fourth years. Correlation of clinical and post-mortem findings: detailed case descriptions from the clinical point of view, followed by thorough demonstrations, grossly and with lantern slides, of post-mortem findings. One hour a week.
- 349-50 *Grand Ward Rounds* Bloedorn and Staff  
Conducted weekly at Gallinger Hospital. Cases are presented at this conference by members of the Resident Staff and Visiting Staff.
- 416 *Tropical Medicine* Yeager  
Lectures, laboratory exercises, museum and clinical demonstrations designed to familiarize the student with problems of tropical medicine, particularly as applied to the present emergency. Two hours a week.
- 417-18 *Physiotherapy* Eldridge  
Lectures and demonstrations of the fundamentals of physical treatment and their applications to general medical diseases. St. Elizabeths Hospital.
- 420 *Medical Jurisprudence* Eldridge  
Lectures on the legal and ethical rights of physicians, and on the legal problems with which the physician is brought into contact. One hour a week for eleven weeks.
- 421-22 *Dispensary Clinics* The Staff  
Thorough study of individual cases subsequently reviewed in detail by the Staff. The University and Emergency hospitals.
- 425-26 *Clinical Clerkship* Dickens, Halley  
Individual case work under strict supervision (student's histories generally accepted as hospital records). The University and Emergency hospitals.
- 440 *Clinical Pharmacology* Herwick  
Brief review in materia medica, prescription writing and the fundamentals of therapeutics; discussion of the pharmacological basis of therapeutics.
- 499 *Clinical Physiology* Dickens  
Continuation of Medicine 324. One hour a week.



## MILITARY SCIENCE AND TACTICS

Lawrence Brewster Lyons, Captain, Infantry, Army of the United States.  
*Professor of Military Science and Tactics*

- 129-30 *Basic Course (First Year)* Lyons  
Legal basis of national defense; organization of the Army and the Medical Department; military law and courts-martial, customs of the service; map reading; military administration.
- 247-48 *Basic Course (Second Year)* Lyons  
Organization and operation of the Medical Department with the Army; combat orders and problems; map exercises; medical service of Infantry and Cavalry divisions.
- 329-30 *Advanced Course (First Year)\** Lyons  
Mess management; military preventive medicine; sanitation; chemical warfare, tactics, defense, and medical aspects.
- 429-30 *Advanced Course (Second Year)\** Lyons  
Military history; leadership; diseases peculiar to war; organization and equipment within the division; mobilization; property accounting.

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\* Students in the first and second year of the advanced course are selected from those who have satisfactorily completed the basic course.

## NEUROLOGY

Walter Freeman, Ph.D., M.D., *Professor of Neurology, Executive Officer*

James Winston Watts, B.S., M.D., *Clinical Professor of Neurosurgery*

Hyman David Shapiro, M.D., *Assistant Clinical Professor of Neurology*

Robert Henry Groh, B.S., M.D., *Clinical Instructor in Neurology*

Paul Chodoff, A.B., M.D., *Clinical Instructor in Neurology*

Vasilios Simos Lambros, M.D., *Clinical Instructor in Neurosurgery*

Harold Stevens, M.D., Ph.D., *Clinical Instructor in Neurology*

**249 Neurology (elective) Freeman**

Methods of study of the nervous system. Gross and microscopic preparations, embryology, comparative anatomy, stimulation and extirpation, human pathology, etc. Laboratory demonstrations. One hour a week.

**331 Neurology Watts and Staff**

Systematic lectures with lantern slides illustrating the chief neurologic syndromes and their anatomic bases. One hour a week.

**333-34 Neurology Clinic (elective) Freeman and Staff**

May be elected in the third or fourth year. Neurological outpatient clinic. Consultation of staff on ambulatory cases, demonstration of diagnostic procedures, disposition of neuropsychiatric cases. Discussion of neuropathologic material. Three hours a week.

**431 Neurosurgery (elective) Watts**

Lectures and clinical demonstrations in surgery of the brain, spinal cord, and peripheral nerves. Emphasis is laid upon fundamentals and upon the possibilities of surgery in the relief of symptoms. One hour a week.

**433 Clinical Neurology Freeman**

Lectures and demonstrations of patients illustrating the diagnosis and treatment of nervous disorders. Material is available at St. Elizabeths Hospital illustrative of the more common disorders and some of the unusual syndromes. One hour a week.

**435-36 Neurologic Examinations Freeman and Staff**

Practical instruction in the examination of patients presenting nervous diseases. Detailed examination of six patients is required of each student. St. Elizabeths Hospital. One-fourth of the class, two hours a week.

## OBSTETRICS AND GYNECOLOGY

- John Louis Parks, M.S., M.D., *Professor of Obstetrics and Gynecology, Executive Officer*  
Radford Brown, M.D., *Clinical Professor of Obstetrics and Gynecology*  
Jacob Kotz, M.D., *Clinical Professor of Obstetrics and Gynecology*  
Henry Lauran Darner, A.B., M.D., *Clinical Professor of Obstetrics and Gynecology*  
Herbert Percy Ramsey, A.B., M.D., *Clinical Professor of Obstetrics and Gynecology*  
Thomas Miles Leonard, Ph.B., M.D., *Adjunct Clinical Professor of Obstetrics and Gynecology*  
George Nordlinger, A.B., M.D., *Associate in Obstetrics and Gynecology*  
Joseph Harris, A.B., M.D., *Associate in Obstetrics and Gynecology*  
Laurence Lee Cockerille, M.D., *Associate in Obstetrics and Gynecology*  
Clayton Howard Hixson M.D., *Associate in Obstetrics and Gynecology*  
Henry John Russell McNitt, B.S. in Med., M.D., *Associate in Obstetrics and Gynecology*  
Samuel Mayer Dodek, A.M., M.D., *Associate in Obstetrics and Gynecology*  
Russel Jon Jansen, M.D., *Associate in Obstetrics and Gynecology*  
Howard Pope Parker, A.B., M.D., *Associate in Obstetrics and Gynecology*  
Roger O'Donnell, Jr., A.B., M.D., *Associate in Obstetrics and Gynecology*  
Katherine Elizabeth Parker, A.M., M.D., *Clinical Instructor in Obstetrics and Gynecology*  
William Dandridge Terrell, Jr., M.D., *Clinical Instructor in Obstetrics and Gynecology*  
James Albert Dusbabek, M.D., *Clinical Instructor in Obstetrics and Gynecology*  
Barton Winters Richwine, M.D., *Clinical Instructor in Obstetrics and Gynecology*  
Samuel Hazen Shea, M.D., *Clinical Instructor in Obstetrics and Gynecology*  
Julius Robert Epstein, M.D., *Clinical Instructor in Obstetrics and Gynecology*  
Morton Selwyn Kaufman, A.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*  
Floyd Sterling Rogers, M.D., *Clinical Instructor in Obstetrics and Gynecology*  
Clarence Kendall Fraser, Ph.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*



Rufus Martin Roll, A.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*

Caroline Jackson, A.M., M.D., *Clinical Instructor in Obstetrics and Gynecology*

Jeremiah Keith Cromer, M.D., *Clinical Instructor in Obstetrics and Gynecology*

Jed Williams Pearson, Jr., A.B., M.D., *Clinical Instructor in Obstetrics and Gynecology*

253-54 *Normal Obstetrics* Fraser, Dodek  
Lectures and demonstrations on the physiology and management of normal pregnancy. One hour a week.

337-38 *Abnormal Obstetrics* Nordlinger, Parks  
Lectures and demonstrations on the complications of pregnancy. One hour a week.

343-44 *Gynecology* Brown  
Lectures and demonstrations on the principles of gynecology. One hour a week for seven weeks.

345-46 *Manikin Demonstrations* Harris  
The mechanism of labor and various types of operative delivery demonstrated to sections of the class in seven one-week sessions.

404-5 *Marriage and Marital Problems* Ramsey, Nordlinger  
A course of instruction in marriage counseling and planned parenthood. One hour a week.

441-42 *Clinical Obstetrics* Parks and Staff  
Senior students participate in prenatal and postnatal clinic care; make postpartum home calls; observe the course of labor and deliver patients under supervision; attend biweekly departmental conferences and daily ward rounds in the University, Gallinger, and Garfield hospitals.

443-44 *Clinical Gynecology* Parks and Staff  
Senior students observe and participate in the gynecological work of the clinics operating rooms, and gynecological wards of the University, Gallinger, and Garfield hospitals.

446 *Female Endocrinology and Operative Gynecology* Kotz, Darner  
Lectures on the physiology and the pathology of the female endocrine system and on principles of gynecological surgery. One hour a week.

## OPHTHALMOLOGY

Ernest Alired Watson Sheppard, M.D.C.M., *Professor of Ophthalmology, Executive Officer*

\*Edgar Leonard Goodman, M.D., M.M.S., *Assistant Clinical Professor of Ophthalmology*

Ronald Atmore Cox, A.B., M.D., *Assistant Clinical Professor of Ophthalmology*

Frank Duncan Costenbader, B.S., M.D., *Assistant Clinical Professor of Ophthalmology*

Richard Wallace Wilkinson, A.B., M.S., M.D., *Associate in Ophthalmology*

Sterling Bockoven, M.D., *Associate in Ophthalmology*

Walter Joseph Romejko, M.D., *Clinical Instructor in Ophthalmology*

Carmon Robert Naples, B.S., M.D., *Clinical Instructor in Ophthalmology*

Micollus Noel Stow, M.D., D.M.S., *Clinical Instructor in Ophthalmology*

James Spencer Dryden, M.D., *Clinical Instructor in Ophthalmology*

### 351-52 *Ophthalmology*

The Staff

A lecture course presenting the principles of ophthalmology, with special reference to topics of importance to the general practitioner. One hour a week for sixteen weeks.

### 447 *Clinic*

The Staff

Intensive training in diseases of the eye; etiology, diagnosis, and treatment in their application to clinical cases. Episcopal Hospital. Three hours twice a week.

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\* On leave of absence 1946-47.

## OTO-RHINO-LARYNGOLOGY

Daniel Bruce Moffett, A.B., M.D., *Professor of Oto-rhino-laryngology,*  
*Executive Officer*

William Herndon Jenkins, M.D., *Clinical Professor of Oto-rhino-laryn-*  
*gology*

Leroy Lee Sawyer, A.B., M.D., *Assistant Clinical Professor of Oto-*  
*rhino-laryngology*

David Davis, A.B., M.D., *Associate in Oto-rhino-laryngology*

Aubrey David Fischer, M.D., *Associate in Oto-rhino-laryngology*

Jeter Carroll Bradley, M.D., *Associate in Oto-rhino-laryngology*

Joel Norton Novick, M.S., M.D., *Clinical Instructor in Oto-rhino-*  
*laryngology*

John Gordon Bell, M.D., *Clinical Instructor in Oto-rhino-laryngology*

Catharine Birch, A.B., M.D., *Clinical Instructor in Oto-rhino-laryn-*  
*gology*

Homer King Vann, A.B., M.D., *Clinical Instructor in Oto-rhino-laryn-*  
*gology*

451 *Oto-rhino-laryngology* Moffett, Jenkins  
 Lectures and demonstrations on anatomy, physiology, and diseases of  
 the ear, nose, and throat. One hour a week.

454 *Bronchoscopy* Davis  
 A series of lectures on the fundamental principles and the use of instru-  
 ments, including both the bronchoscope and esophagoscope. One hour  
 a week for two weeks.

456 *Clinic* The Staff  
 Practical clinical instruction in the diagnosis and treatment of diseases  
 of the ear, nose, and throat. Episcopal Hospital. One and one-half  
 hours twice a week.



## PATHOLOGY

Roger Morrison Choisser, B.S., M.D., *Professor of Pathology, Executive Officer*

Thomas Martin Peery, A.B., M.D., *Associate Professor of Pathology*

Anna Margaret Allen, L.R.C.P.S.I., D.P.H., *Instructor in Pathology*

Jack Spier, M.D., *Instructor in Pathology*

### 259-60 *Pathology*

Choisser, Peery

Malformations, inflammations, degenerations, and neoplasms; special pathology of the organs and specific diseases. The laboratory work consists of the gross and microscopic study of diseased tissues. Necropsies are held regularly at the University and Gallinger hospitals.

### 307 *Necropsy (elective)*

The Staff

Students assist in the performance of necropsies. Fresh gross specimens and microscopic sections from each case are presented at weekly conferences. Current literature relating to cases is reviewed and presented by the students.

### 327-28 *Clinical Pathological Conference*

Choisser, Bloedorn

Required in the third and fourth years. Case histories are presented and discussed by members of the staff and student body; necropsy and clinical findings are compared, and gross and microscopic specimens examined. One hour a week.

### 460 *Research*

Choisser

Hours and credits to be arranged.

## PEDIATRICS

- Preston Alexander McLendon, B.S., M.D., *Professor of Pediatrics, Executive Officer*  
 Charles Aurelius Schutz, M.D., *Clinical Professor of Pediatrics*  
 Margaret Mary Nicholson, A.B., M.D., *Clinical Professor of Pediatrics*  
 Edward Lewis, M.D., *Clinical Professor of Pediatrics*  
 Lewis Kaigler Sweet, A.B., M.D., *Adjunct Clinical Professor of Pediatrics*  
 William Staton Anderson, A.B., M.D., *Assistant Clinical Professor of Pediatrics*  
 Mabel Harlakenden Grosvenor, A.B., M.D., *Assistant Clinical Professor of Pediatrics*  
 John Augustine Washington, A.B., B.S., M.D., *Assistant Clinical Professor of Pediatrics*  
 Aaron Nimetz, A.B., M.D., *Assistant Clinical Professor of Pediatrics*  
 Dorothy Steinkle Jaeger, M.D., *Associate in Pediatrics*  
 George Maksim, M.D., M.S. in Ped., *Associate in Pediatrics*  
 John Howell Peacock, B.S., M.D., *Clinical Instructor in Pediatrics*  
 Herbert Harold Diamond, M.D., *Clinical Instructor in Pediatrics*  
 Frederic Gerard Burke, B.S., M.D., *Clinical Instructor in Pediatrics*  
 Reginald Henry Mitchell, M.D., *Clinical Instructor in Pediatrics*

### 354 *Pediatrics*

Nicholson

Ward walks and weekly clinic. Gallinger Hospital. Two sections.

### 355-56 *Pediatrics*

Schutz

Lectures on diseases and malformations of the newly born. Growth, metabolism, nutrition, nutritional diseases, therapeutics, habits, preventive pediatrics, and social aspects are considered. One hour a week for twenty-four weeks.

### 357-58 *Clinic*

Peacock, Grosvenor

Clinical instruction in the care and diseases of the newly born, congenital malformations, birth injuries, and prematurity. Gallinger Hospital. One-fourth of the class, one hour a week.

### 359-60 *Contagious-Disease Clinic*

The Staff

Bedside instruction in scarlet fever, diphtheria, etc. Gallinger Hospital. One-fourth of the class, one hour a week. Ward walks twice a week.

### 463-64 *Child-Welfare and Preventive Clinic*

Schutz, Jaeger

Clinical course in the infant and the pre-school child. Children's Hospital, Child Welfare Center. One section, one hour a week.

465-66 *Clinic*

The Staff

Out-patient clinic: minor to serious disorders of children, emotional life of the child, habit formations, and behavior problems. Children's Hospital. One section, Mon., Tues., Wed., and Fri., one and one-half hours.

467-68 *Clinic*

McLendon and Staff

Teaching clinic. Children's Hospital. Entire class, one and one-fourth hours a week.

469-70 *Clinical Clerkship*

The Staff

Individual case work under strict supervision. Students act as Junior Interns throughout the hospital. Children's Hospital. One-fourth of class, daily. 9:30 A.M. to 4:30 P.M.

471-72 *Allergy Clinic*

Jaeger

Prerequisite: Bacteriology 209. Practical work in the Allergy Clinic of Children's Hospital may be obtained by a small group of senior students. Two afternoons a week.



## PHARMACOLOGY

Paul Kenneth Smith, Ph.D., *Professor of Pharmacology, Executive Officer*

Edgar William Ligon, Jr., Ph.D., *Assistant Professor of Pharmacology*

Edward Leong Way, Ph.D., *Instructor in Pharmacology*

### 261 *Pharmacology*

The Staff

Lectures, conferences, and demonstrations concerning the action of drugs. A comprehensive course considering the biochemical and physiological responses to the administration of drugs as a basis for the rational therapy of disease. Five hours a week for the first half of the second year.

### 263 *Pharmacology Laboratory*

The Staff

Laboratory instruction designed to supplement the above course. Five hours a week for the first half of the second year.

### 262 *Pharmacological Research*

The Staff

Primarily for those properly qualified graduate and medical students seeking careers in pharmacology. Hours to be arranged.

## PHARMACY \*

William Paul Briggs, M.S., *Adjunct Professor of Pharmacy*  
Charles Watson Bliven, M.S., *Associate Professor of Pharmaceutical Chemistry, Executive Officer*  
Asa Vernon Burdine, *Lecturer on Pharmaceutical Economics*  
Harold Clayton Kinner, B.S. in Phar., *Lecturer on Pharmaceutical Law*  
Leopold Henry Forster, Phar.G., *Instructor in Hospital Pharmacy*  
Emily Anna May Godfrey, B.S. in Ed., *Instructor in Pharmacy*  
Jane Gass, M.S., *Instructor in Pharmacology and Pharmacognosy*

### SEMINAR LECTURERS

James Johnson Durrett, M.S., Phar.G., M.D., *Professorial Lecturer on Drug Control Problems*  
Carson Peter Frailey, Phar.D., *Professorial Lecturer on Industrial Pharmacy*  
Warren Fales Draper, A.B., M.D., *Professorial Lecturer on Public Health*  
Frederick John Cullen, Phar.G., M.D., *Professorial Lecturer on Drug Manufacture*  
James Albert Horton, LL.B., *Professorial Lecturer on Drug Trade Regulations*  
John Christian Krantz, Jr., Ph.D., *Professorial Lecturer on Pharmaceutical Research*  
Justin Lawrence Powers, Ph.D., *Professorial Lecturer on Official Drug Standards*  
George Clemens Ruhland, M.D., *Professorial Lecturer on Hygiene and Sanitation*  
Robert Lee Swain, Phar.D., LL.B., *Professorial Lecturer on Contemporary Pharmacy*  
George Potter Larrick, *Professorial Lecturer on Drug Control*

*Minimum requirements for the degrees.—See pages 110-13, 114-15.*

\* The pre-pharmacy requirements of the Junior College, as stated on page 57 of this CATALOGUE, are in error and should be corrected in the following particulars: Science—Freshman Year: Zoology 1, Botany 2, and Chemistry 11, 12; Sophomore Year: Chemistry 21, 22, and Physics 5, 6. To the Sophomore Year requirements for the professional subjects, Pharmacy 25-26 should be added. With these corrections the total number of credit hours required is changed to 61.

## FIRST GROUP

- 1-2 *Principles of Pharmacy* (2-2) Bliven  
Pharmaceutical mathematics and fundamental laboratory technique. Laboratory fee,\* \$8 a term. Lecture (2 hours), laboratory (2 hours)—morning.
- 21-22 *Operative Pharmacy* (4-4) Godfrey  
The theory and manufacture of pharmacopoeial and formulary preparations. Laboratory fee,\* \$12 a term. Lecture (2 hours)—morning; laboratory (6 hours)—afternoon.
- 23-24 *Pharmacognosy* (3-3) Gass  
Macroscopic and microscopic. Prerequisite: Botany 1. Laboratory fee,\* \$7 a term. Lecture (2 hours)—morning; laboratory (3 hours)—afternoon.
- 25-26 *History and Literature of Pharmacy* (1-1) Briggs  
Survey of the development of the profession of pharmacy and the literature of pharmacy. Morning.

## SECOND GROUP

- 102 *Dispensing Pharmacy* (4) Briggs, \_\_\_\_\_  
Compounding of typical prescriptions and a study of incompatibilities. Prerequisite: Pharmacy 2 and 22. Laboratory fee,\* \$12. Lecture (2 hours)—morning; laboratory (6 hours)—afternoon.
- 103 *Dispensing Pharmacy* (4) Briggs, \_\_\_\_\_  
Continuation of Pharmacy 102. Laboratory fee,\* \$12. Lecture (2 hours)—morning; laboratory (6 hours)—afternoon.
- 105-6 *Pharmacology I* (2-2) Gass  
Uses of official and new nonofficial drugs; biologicals, glandular products, first aid, and medical requisites. Morning.
- 107 *Ethics of Pharmacy* (1)  
(Not offered in 1946-47.)
- 109 *Inorganic Pharmaceutical Chemistry* (3) Gass  
Preparation and qualitative testing of official inorganic chemicals and chemical preparations. Laboratory fee,\* \$12. Prerequisite: Chemistry 21. Lecture (2 hours)—morning; laboratory (3 hours)—afternoon.
- 110 *Organic Pharmaceutical Chemistry* (3) Bliven  
Preparation and qualitative testing of official organic chemicals and chemical preparations. Laboratory fee,\* \$12. Prerequisite or concurrent registration: Chemistry 152. Lecture (2 hours)—morning; laboratory (3 hours)—afternoon.

\* The laboratory fee covers both material and equipment, and no breakage deposit is required. A fee of \$2 is charged any student who fails to check out of the laboratory by the time set by the instructor. Students breaking an excessive amount of equipment will be required to pay an additional fee.



- 151 *Advanced Pharmacognosy* (2)  
Microscopic. Prerequisite: Pharmacy 24. Material fee, \$7. Time to be arranged.
- 153-54 *Pharmacology II* (3-3)  
Laboratory work in basic pharmacological technique. Prerequisite: Pharmacy 106; Physiology 115 and 117. Laboratory fee,\* \$8 a term. Time to be arranged.
- 165-66 *Pharmacology III* (3-3)  
Pharmacodynamics, toxicology, and biological assays. Prerequisite: Pharmacy 24 and 106; Physiology 115 and 117. Pharmacy 106. Laboratory fee,\* \$12. Fall term: morning. Winter term: lecture (1 hour)—morning; laboratory (3 hours)—afternoon.
- 172 *Advanced Dispensing Pharmacy* (2)  
The equipment and management of professional pharmacies and advanced dispensing. Prerequisite: Pharmacy 103. Laboratory fee,\* \$12. Time to be arranged.
- 174 *Quantitative Pharmaceutical Analysis* (4) Bliven  
Drug analysis. Prerequisite: Chemistry 22. Laboratory fee,\* \$12. Lecture (2 hours)—morning; laboratory (6 hours)—afternoon.
- 176 *Pharmaceutical Law* (1) Kinner  
Morning.
- 178 *Pharmaceutical Economics* (2) Burdine  
Marketing of drug products, retail pharmacy management, business principles and methods. Morning.
- 181 *Advanced Pharmacology I* (2)  
Special problems and studies in the field of pharmacology. Prerequisite: Pharmacy 106. Prerequisite or concurrent registration: Pharmacy 165. Time to be arranged.
- 184 *Advanced Pharmacology II* (2)  
Advanced biologicals and glandular products. Prerequisite: Pharmacy 106. Prerequisite or concurrent registration: Pharmacy 166. Time to be arranged.
- 187-88 *Seminar* (1-1) The Seminar Staff  
A symposium covering the various phases of Pharmacy. (Not offered in 1946-47.)
- 192 *Prescription Practice* (no credit) Forster  
The compounding of prescriptions and manufacture of medicinal preparations in the University Hospital Pharmacy. Required of seniors.

\* The laboratory fee covers both material and equipment, and no breakage deposit is required. A fee of \$2 is charged any student who fails to check out of the laboratory by the time set by the instructor. Students breaking an excessive amount of equipment will be required to pay an additional fee.

## THIRD GROUP †

- 201-2 *Survey of Pharmaceutical Literature* (1-1) Briggs  
Assigned library research on the development of pharmaceutical literature.
- 213-14 *Advanced Pharmacognosy II* (2-2)  
Study of vegetable drugs, spices, and foods with special reference to identification and detection of adulteration. Laboratory fee,\* \$6 a term.
- 215-16 *Advanced Pharmacology III-IV* (3-3)  
Special studies on biological assay methods. Laboratory fee,\* \$11 a term.
- 222 *Pharmaceutical Chemistry* (2) Bliven  
A study of drugs by therapeutic classes; relationship of structure and action. Time to be arranged.
- 224 *Pharmaceutical Chemistry* (2) Bliven  
The preparation of official and nonofficial chemical drugs. Laboratory fee,\* \$12.
- 227 *Food and Drug Analysis* (4) Bliven  
A study of the composition of some common foods and food products. Laboratory fee,\* \$12.
- 231 *Pharmacology of Anesthetic Drugs* (4)  
Theoretical consideration of the principles of anesthesiology and laboratory study of the action of anesthetic drugs. Laboratory fee,\* \$12.
- 234 *Pharmacology of Autonomic Drugs* (4)  
A study of action and interaction of drugs principally influencing the autonomic nervous system. Laboratory fee,\* \$12.
- 236 *Experimental Toxicology* (4)  
Pharmacological action of toxic drugs correlated with chemical and pathological studies. Laboratory fee,\* \$11.
- 251-52 *Graduate Seminar* (1-1) The Staff  
Current problems and trends in pharmacy.
- 253-54 *Research* (arr.) The Staff  
Investigations of special problems in the major field of study. Credits and fees to be arranged.
- 255-56 *Thesis* (3-3) The Staff  
Laboratory fee,\* \$14 a term.

\* The laboratory fee covers both material and equipment, and no breakage deposit is required. A fee of \$2 is charged any student who fails to check out of the laboratory by the time set by the instructor. Students breaking an excessive amount of equipment will be required to pay an additional fee.

† The graduate courses, which are listed in the third group, will not be offered until September 1947.

## PHILOSOPHY

David Hawkins, Ph.D., *Associate Professor of Philosophy, Executive Officer*

Charles Edward Gauss, Ph.D., *Assistant Professor of Philosophy*

*The major.*—The major in philosophy, administered under the field-of-study plan, provides an opportunity for the student to become acquainted with the broader and more fundamental aspects of the vital issues of our day and civilization.

### FIRST GROUP

- 1-2 *Introduction to Philosophy* (3-3) Hawkins, Gauss  
The course is designed to introduce the student to the vital issues, both theoretical and practical, with which human intelligence is confronted in the present age. Morning and evening sections.  
Summer term 1946.

### SECOND GROUP

- 111-12 *History of Philosophy* (3-3) Hawkins, Gauss  
A historical survey of the western tradition in philosophy with attention to its relevance to other fields of human endeavor and to its importance in the cultural pattern of an age. Morning and evening sections.
- 121 *Logic* (3) Gauss  
A study of deductive and inductive logic and their application to the natural and social sciences. Morning.  
Summer term 1946.
- 124 *Scientific Theory and Method* (3) Hawkins  
A study of the means of investigation and description employed in the sciences; the theory of scientific inference and prediction. Morning.
- 132 *Ethics* (3) Hawkins  
A study of wisdom in conduct in personal and group life. (Not offered in 1946-47.)  
Summer term 1946.
- 151-52 *Science in History* (3-3) Hawkins  
A historical study of three principal topics: (1) the evolution of the scientific modes of knowledge, (2) the connections between science and technology, (3) the philosophy of science in relation to religious and political thought. Evening.
- 162 *Aesthetics* (3) Gauss  
The philosophy of beauty and criticism in the contemporary arts.  
Morning.



171 *American Philosophy to 1880* (3)

Gauss

A general history of philosophy in the United States, its various schools as a modification of foreign traditions assimilated by American thought, and its influence on politics, social life, literature, education, etc. Emphasis on the ideas of Puritanism, Democracy, and Transcendentalism. Morning.

172 *Recent American Philosophy* (3)

Gauss

Continuation of Philosophy 171. American thought from 1880. The influence of science on recent philosophy and the rise of Pragmatism. A study of the work of Peirce, James, Dewey, Royce, Santayana, and the new Realisms. Morning.

199-200 *Proseminar: Readings for the*

Hawkins, Gauss

*Major* (3-3)

Time to be arranged.

THIRD GROUP

201-2 *Individual Work and Conferences*  
(3-3)

Hawkins, Gauss

Advanced readings and reports for those capable of advanced work. Investigation of special problems.

299-300 *Thesis* (3-3)

Hawkins, Gauss

## PHYSICAL EDUCATION FOR MEN\*

William Henry Myers, A.M., *Professor of Physical Education for Men.*  
*Executive Officer*

Joseph Henry Krupa, M.S., *Associate Professor of Physical Education for Men*

Raymond George Hanken, B.S., *Assistant Professor of Physical Education for Men*

George Albert Lentz, *Associate in Physical Education for Men*

This Department includes all the recognized athletic activities of the men students of the University.

Two years of physical education (Physical Education 1-2 and 11-12) are required of all men for graduation, except those students exempt under the regulations stated on page 38.

Upon entering the University, all freshmen or other undergraduate students who have not fulfilled the physical education requirement are given a medical examination. Assignments for medical examinations will be given at the time of registration. The students who satisfy the requirements of the medical examination are then given a physical efficiency test in the general bodily skills of agility, endurance, and strength; and in swimming. If the physical efficiency test is passed, the student may elect from the following list of activities:

Setting-up Exercises (stretching exercises)

Body Building Exercises (gymnastic apparatus and weight lifting skills)

Competitive Exercises (modified games and sports)

Swimming Exercises (distance, speed, and life saving)

If the physical efficiency test is not passed, the student will be assigned to a class for training in the above activities in the order listed.

The Department furnishes gymnasium uniforms and personal equipment upon a small payment.

*Minimum requirements for the Dual-Major Teacher's Course.—See pages 119-20, 121.*

*Minimum requirements for the Single-Major Teacher's Course.—See pages 119-20, 121.*

*Minimum requirements for the minor.—Prerequisite: Physical Education 42, 43-44, 45-46 (all of these courses may be satisfied by examination); 47, 49, 58. Required: twelve credit hours of second-group courses in physical education, including 102, 103, and 113-14.*

### FIRST GROUP

#### 1-2 *Freshman Physical Education*† (2-2)

The Staff

Four periods of supervised activity a week. Locker and towel fee, \$2 a term. Assignment for activities and time to be arranged.

\*The University is not responsible for injuries received in inter-collegiate or intra-mural games, or in any of the activities of the departments of physical education.

† Freshmen and sophomores in the School of Engineering are required to take two, instead of four, periods of physical education a week for which they receive one, instead of two, credits a term.

- 11-12 *Sophomore Physical Education\** (2-2) The Staff  
Four periods of supervised activity a week. Locker and towel fee, \$2 a term. Assignment for activities and time to be arranged.
- 42 *Aquatic Sports, Swimming, and Lifesaving* (2) Hanken  
Afternoon.
- 43-44 *Techniques of Physical Education Motor Activities for Freshmen* (2-2) The Staff  
A critical survey of the fundamental skills, rules, organization, appreciations, and attitudes in these activities. Afternoon.
- 45-46 *Techniques of Physical Education Motor Activities for Sophomores* (2-2) The Staff  
Afternoon.
- 47 *Introduction to Physical Education* (2) Myers  
An orientation course presenting in elementary form the problems of physical education, vocational analysis, historical implication, scientific foundations, and scope of field. Time to be arranged.
- 49 *Human Anatomy* (3) Lawrence  
The structure of the human body. Basic course for physical education students. Open to both men and women. Prerequisite: Biology 1-2. Time to be arranged.
- 58 *First Aid and Care of Athletic Injuries* (2) Lentz  
Prevention and emergency care of injuries of all types, with special reference to first aid, bandaging, and massage. A practical course. Prerequisite: Physical Education 49; Biology 1-2. Afternoon.

## SECOND GROUP

- 102 *Nature and Function of Play* (2) Atwell  
The significance of play in human growth and development; social and physical aspects of play; play activities in relation to age levels. Open to both men and women. Morning.
- 103 *History and Principles of Physical Education* (2) Myers  
The interpretation of objectives of physical education activities under leadership, in terms of development, adjustment, and standards. Open to both men and women. Morning.
- 107 *Introduction to Methods in Physical Education* (2) Krupa  
Essential facts of education, psychology, and sociology, with special reference to the problem of method in physical education. Prerequisite: Biology 1-2; Psychology 1 and 22; Sociology 27 and 28. Time to be arranged.

\*Freshmen and sophomores in the School of Engineering are required to take two, instead of four, periods of physical education a week for which they receive one, instead of two, credits a term.



109 *Leadership Organization in the Intramural Program (2)*

Krupa

Principles of administration, organization, and supervision of intramural activities in the physical-education program of the junior high schools, senior high schools, and colleges. Prerequisite: Physical Education 47 and 107. Afternoon.

Physical Education 109x—same as Physical Education 109, but offered winter term. Afternoon.

113-14 *Directed Teaching in Physical Education Activities (2-2)*

The Staff

Practical demonstration of teaching procedures in adapting activities to the various problems in the secondary school organization. Prerequisite: a minimum of twelve credit hours in physical education; Physical Education 107. Time to be arranged.

115-16 *Methods in Major Sport Activities (2-2)*

The Staff

Teaching procedures in adapting major sport activities to the several age-period groups and to individual differences existing in the secondary school organization. Prerequisite: demonstration of a fair degree of skill in these various activities; Physical Education 107. Time to be arranged.

117-18 *Methods in Minor Sport Activities (2-2)*

The Staff

The scientific procedures in adapting these various activities to a secondary school physical-education program. Prerequisite: demonstration of a fair degree of skill in these various activities; Physical Education 107. (Not offered in 1946-47.)

121 *School and Community Health Programs (3)*

Atwell

Health services, healthful environment, health instruction, sources of material for general health knowledge. Open to both men and women. Prerequisite: Zoology 1-2 or Biology 1-2. Time to be arranged.

122 *Methods and Materials in Health Education (3)*

Woodson

Organization and presentation of health materials for each age level. Prerequisite: Zoology 1-2 or Biology 1-2. Open to both men and women. Time to be arranged.

123 *Psychological Analysis of Activities (2)*

Krupa

A detailed analysis of the mental processes during participation in physical-education activities. Prerequisite: Psychology 1 and 22. Time to be arranged.

124 *Applied Anatomy and Physiology (3)*

Myers

The anatomical and physiological effects of physical-education activity. Prerequisite: Physical Education 49; Physiology 115; Zoology 1-2. Time to be arranged.

**125 Kinesiology of Sports for the Physically Handicapped (3)**

Myers

Methods employed in the teaching of body mechanics which are adapted to the prevention and correction of physical disabilities. Prerequisite: Physical Education 49 and 124; Zoology 1-2. Time to be arranged.

**131 Tests and Measurements in Physical Education (3)**

Atwell

Critical survey of tests in physical activities; methods of test construction; elementary statistics. Open to both men and women. Time to be arranged.

**133-34 Observation and Practice Teaching (3-3)**

Myers

Required of every major student in the junior or senior year. Assignments are made to schools in Washington, D. C., and vicinity. Prerequisite: Education 131; Physical Education 113-14. Time to be arranged.

**138 Administration and Organization of Physical Education (2)**

Myers

The administration of a unified program; a study of physical education plants, athletic fields, and equipment. Prerequisite: Physical Education 47. Morning.

## PHYSICAL EDUCATION FOR WOMEN\*

Ruth Harriet Atwell, A.M., *Professor of Physical Education for Women, Executive Officer*

Helen Bennett Lawrence, A.M., *Associate Professor of Physical Education for Women*

Jenny Emsley Turnbull, A.M., *Assistant Professor of Physical Education for Women*

Elizabeth Burtner, A.M., *Assistant Professor of Physical Education for Women*

Virginia Loretta Dennis, A.B., *Assistant Professor of Physical Education for Women*

Marjorie Tate, B.S., A.M., *Assistant Professor of Physical Education for Women*

Two years of physical education (Physical Education 1-2 and 11-12) are required of all women for graduation, except of students exempt under the regulations stated on page 38. In the fall a complete medical and physical examination is given each student for the purpose of discovering individual needs. Those students whose examinations indicate the desirability of remedial or restricted activity are assigned to a program especially adapted to their needs. This limited program includes moderate sports and individual body mechanics in small groups under careful supervision.

The required costume for physical education classes may be purchased at the Student Club.

*Minimum requirements for the major.*—For the first two years in Junior College see page 57. For the last two years in the School of Education see pages 119-20. **121.** Students desiring to prepare themselves to teach another subject in addition to physical education may do so by choosing their elective hours in one subject-matter field with the advice of the Dean of the School of Education.

### FIRST GROUP

#### 1-2 *Freshman Physical Education (1-1)*

The Staff

One period of fundamentals of health, physical education, and recreation, and two periods of activity a week.

Fundamentals of health and physical education: study of the factors involved in the maintenance of health and in the efficient use of the body. Morning and afternoon sections.

Activities: soccer, riding, field hockey, folk and square dance, modern dance, lacrosse, bowling, ice skating, roller skating, volleyball, basketball, badminton, individual body mechanics, swimming (elementary, intermediate, and advanced), tennis, softball, archery, elementary golf. Locker and towel fee, ‡ \$2 a term. Afternoon.

\* The University is not responsible for injuries received in inter-collegiate or intra-mural games, or in any of the activities of the departments of physical education.

‡ The locker and towel fee is required for registration in one or more of the activity courses



- 11-12 *Sophomore Physical Education (1-1)* The Staff  
Activities: same as Physical Education 1-2. Locker and towel fee.\*  
\$2 a term. Two periods a week; morning and afternoon sections.

- 13-14 *Skill Techniques in Physical Education Activities (2-2)* The Staff

Practice in basic motor skills for prospective teachers in the following: (1) team sports—field hockey, soccer, basketball, and softball; (2) dance—folk, square, and modern; (3) body mechanics; (4) individual and dual sports—swimming, tennis, golf, badminton, archery. Programs are arranged according to individual needs. Locker and towel fee,\* \$2 a term. Afternoon.

- 15-16 *Skill Techniques in Physical Education Activities (2-2)* The Staff

Continuation of Physical Education 13-14. Locker and towel fee.\* \$2 a term. Afternoon.

- 18 *Kinesiology (3)* Lawrence

A study of the anatomical mechanism of movement, analysis of the action of the muscles in physical-education activities. Open to both men and women. Prerequisite: an approved course in anatomy. Morning.

- 49 *Human Anatomy (3)* Burtner

The structure of the human body. Basic course for physical education students. Open to both men and women. Morning.

#### SECOND GROUP

- 102 *Nature and Function of Play (2)* Atwell

The significance of play in human growth and development; social and physical aspects of play; play activities in relation to age levels. Open to both men and women. (Not offered in 1946-47.)

- 103 *History and Principles of Physical Education (2)* Atwell

Open to both men and women. Morning.

- 105-6 *Individual Body Mechanics and Physical Examinations (3-3)* Lawrence

Cause and correction of faulty body mechanics and other abnormal physical conditions, physical-examination methods used in the diagnosis of physical defects, program adaptation to special cases. Prerequisite: Physical Education 18; Zoology 1-2 or Biology 1-2 and an approved course in anatomy. Morning.

- 111-12 *Methods of Teaching Physical Education Activities (2-2)* The Staff

Teaching procedures, officiating, and opportunities for assisting in teaching the following: graded games for all ages; group gymnastics; field hockey; archery; recreational dance including folk, square, and social dance. Locker and towel fee,\* \$2 a term. Time to be arranged.

\* The locker and towel fee is required for registration in one or more of the activity courses.

- 119-20 *Methods of Teaching Physical Education Activities (2-2)* The Staff  
Teaching procedures, officiating, and opportunities for assisting in teaching the following: recreational sports including badminton, bowling, golf, and others; tumbling and stunts; swimming; basketball; tennis; soccer; softball; modern dance. Locker and towel fee,\* \$2 a term. Time to be arranged.
- 121 *School and Community Health Programs (3)*  
Health services, healthful environment, health instruction, sources of material for general health knowledge. Open to both men and women. Prerequisite: Zoology 1-2 or Biology 1-2. Time to be arranged.
- 122 *Methods and Materials of Health Instruction (3)* Turnbull  
Organization and presentation of health materials for each age level. Prerequisite: Zoology 1-2 or Biology 1-2. Open to both men and women. (Not offered in 1946-47.)
- 130 *Clinical Work in Individual Body Mechanics and Physical Examinations (3)* Lawrence  
Practice in giving physical examinations, analysis of results, prescription and teaching of corrective exercises; observation in orthopedic clinics in city; first aid and care of athletic injuries, with instruction in bandaging and massage. Prerequisite: Physical Education 105-6; Zoology 1-2 or Biology 1-2. Time to be arranged.
- 131 *Tests and Measurements in Physical Education (3)* Atwell  
Critical survey of tests in physical activities; methods of test construction; elementary statistics. Open to both men and women. (Not offered in 1946-47.)
- 132 *Camp Leadership (1)* Atwell  
Philosophy and administration of modern camps. Open to both men and women. Afternoon.
- 133-34 *Observation and Cadet Teaching (3-3)* Atwell  
Directed teaching with weekly conferences in junior and senior high schools. Time to be arranged.
- 135-36 *Survey of Dance History and Dance Forms (3-3)* Burtner  
Primitive, Greek, medieval, pre-classic, romantic, and modern periods. Traditional forms, such as polka, schottische, mazurka, and waltz. Fundamental movement techniques, composition and discussion. Designed for students interested in art, drama, and dance. Late afternoon.
- 140 *Administration of Physical Education (3)* Atwell  
Organization and administration of physical education in elementary and secondary schools and colleges. Prerequisite: Physical Education 102 and 103. Morning.

\* The locker and towel fee is required for registration in one or more of the activity courses.

## PHYSICS

Thomas Benjamin Brown, Ph.D., *Professor of Physics, Executive Officer*  
 Walter Lynn Cheney, Ph.D., *Professor of Physics*  
 George Antony Gamow, Physics D., *Professor of Theoretical Physics*  
 Raymond John Seeger, Ph.D., *Professorial Lecturer in Physics*  
 Charles Louis Critchfield, Ph.D., *Associate Professor of Physics*  
 Raymond Edgar Wilson, Ph.D., *Associate Professor of Physics*  
 George Martin Koehl, A.M., *Associate in Physics*  
 Charles Ravitsky, M.S. in Ed., *Associate in Physics*

*The major.*—Prerequisite: Physics 6, 7, 8, and 55; Chemistry 12; Mathematics 19 and 20. Required for the Bachelor of Arts degree: Physics 116, 121, 125 (or Electrical Engineering 9 and 10); Mathematics 132; nine credit hours from Physics 113-14, 122, 128, 132, and 161, three credit hours from Physics 143-44 and 155-56. Required for Bachelor of Science degree; same as for the Bachelor of Arts degree, plus Mathematics 171.

### FIRST GROUP

#### 5 *General Physics*\* (3)

Wilson and Staff

Introduction to the scientific method as used in the study of energy and forces; physical properties of solids, liquids, and gases; phenomena of heat and light. Prerequisite: high school algebra and plane geometry. Material fee, \$6. Lecture (1 hour)—morning and evening sections; recitation (1 hour)—morning, afternoon, and evening sections; laboratory (2 1/3 hours)—morning, afternoon, and evening sections.

Physics 5x—same as Physics 5, but offered winter term. Lecture (1 hour)—morning and evening sections; recitation (1 hour)—morning, afternoon, and evening sections; laboratory (2 1/3 hours)—morning, afternoon, and evening sections.

Summer term 1946.

#### 6 *General Physics*\* (3)

Cheney and Staff

Mechanics, wave-motion, sound, and the theory of optical instruments. Offered winter term. Prerequisite: Physics 5; high school algebra and plane geometry. Material fee, \$6. Lecture (1 hour)—morning and evening sections; recitation (1 hour)—morning, afternoon, and evening sections; laboratory (2 1/3 hours)—morning, afternoon, and evening sections.

Summer term 1946.

#### 7 *General Physics*\* (3)

Cheney and Staff

Elementary electricity and magnetism. Offered fall term. Prerequisite: Physics 5; high school algebra and plane geometry. Material fee, \$6. Lecture (1 hour)—morning and evening sections; recitation (1 hour)—morning, afternoon, and evening sections; laboratory (2 1/3 hours)—morning, afternoon, and evening sections.

Summer term 1946.

\* See footnote on page 246.



**8 General Physics\* (2)**

Brown

The experimental evidence concerning the nature of light, electricity, and matter; practical developments of modern physics, such as X-ray apparatus, electron tubes, and radio. Prerequisite: Physics 6 and 7. Morning and evening sections.

Summer term 1946.

**55 Physical Measurements\* (2)**

Cheney

Theory and use of the methods of precise measurement in the several fields of physics. Prerequisite: Physics 6 and 7. Prerequisite or concurrent registration: Mathematics 19. Material fee, \$6. Lecture (1 hour), laboratory (2 hours)—afternoon and evening sections.

Summer term 1946.

**SECOND GROUP****113-14 Atomic and Molecular Physics (3-3)**

Critchfield

Constituent particles of matter, elements of the quantum theory, spectra and structure of atoms and molecules, and the kinetic theory and the properties of macroscopic bodies. Prerequisite: Physics 8; Mathematics 20. Evening.

**116 Optics (3)**

Critchfield

Geometrical optics; elementary theory of wave motions; interference, diffraction, polarization, and dispersion of light; laws of black-body radiation. Prerequisite: Physics 8; Mathematics 20. 1947-48 and alternate years, evening.

Summer term 1946.

**121 Mechanics (3)**

Cheney

Statics, elasticity, dynamics of solids and fluids, and gravitation. Prerequisite: Physics 6; Mathematics 20. Morning.

**122 Heat and Thermodynamics (3)**

Cheney

Thermometry, calorimetry, heat conduction, the laws of thermodynamics with application to physical systems. Prerequisite: Physics 8; Mathematics 20. 1947-48 and alternate years, evening.

**125 Principles of Electricity (3)**

Wilson

Fundamental phenomena of electricity and magnetism; circuit theory, including elementary alternating-current circuits; terrestrial magnetism; atmospheric electricity. Prerequisite: Physics 8; Mathematics 20. Evening.

**128 Sound (3)**

Wilson

Production, propagation, and detection of sound waves; vibrations of sounding bodies; acoustic instruments and acoustic measurements. Prerequisite: Physics 8; Mathematics 20. 1946-47 and alternate years, evening.

\* Physics 6, 7, and 8 constitute the basic course in physics. Students who have credit for high school physics from an accredited high school may omit Physics 5 as a prerequisite to Physics 6 and 7, provided that they pass a qualifying examination given at the beginning of the course (Physics 6 or Physics 7).

Before completing registration for Physics 5, 6, 7, or 55, each student must obtain from the representative of the Department an assignment to a class section.

**132 Electronics (3)**

Brown

The phenomena of electron emission from solids; the physical properties of electron tubes, and the principles underlying their basic applications. Prerequisite: Physics 8 and 55, and Physics 125 or Electrical Engineering 10. Material fee, \$6. Lecture (2 hours), laboratory (2 hours)—evening.

**143-44 Modern Experimental Physics (3-3)**

Brown

Experimental methods for the study of the physical properties of electrons, atoms, and molecules. Prerequisite: Physics 8. Material fee, \$6 a term. Afternoon.

**155 Advanced Physical Measurements (3)**

Brown

An individual program of experiments arranged for each student in accordance with his preparation and his special interests. Prerequisite: Physics 55 and one course from Physics 116, 121, 125 (or Electrical Engineering 9 and 10). Material fee, \$6. Afternoon and evening sections.

**161 Nuclear Physics (3)**

Gamow

Radioactivity, nuclear transformations, new particles; astrophysical applications. Prerequisite: Physics 113-14. Summer term 1946.

## THIRD GROUP

**205-6 Current Topics in Modern Physics (1-1)**

Gamow

Prerequisite: Physics 113-14. Evening.

**211-12 Classical Physical Theory (3-3)**

Brown, Cheney

Fall term: dynamics of systems of particles and of rigid bodies; generalized coordinates. Winter term: dynamics of elastic bodies and fluids; electromagnetic field theory. Prerequisite: Physics 121, 122, and 125; Mathematics 132 and 171. Evening.

**213-14 Electromagnetic Radiation (3-3)**

Brown

Electromagnetic theory as applied to light and radio waves, with especial consideration given to "micro-waves". Prerequisite: Physics 125 and Mathematics 132, or the equivalent. 1947-48 and alternate years, evening.

**217-18 Statistical Physics (3-3)**

Seeger

Foundations of classical and quantum statistics, kinetic theory of gases, fluctuation phenomena, thermodynamic properties of matter and radiation. Prerequisite: Physics 113-14, 121, and 122. (Not offered in 1946-47.)

**219-20 Fluid Dynamics (3-3)**

Seeger

Ideal fluids; viscous fluids; compressible fluids; applications to aerodynamics, boundary layer phenomena, supersonic flow. Prerequisite: Physics 121 and 122; Mathematics 132 and 171. Evening.

- 221-22 *Quantum Mechanics (3-3)* Critchfield  
Formulation and application of laws holding within the atom, the relation of these laws to those of classical physics. Prerequisite: Physics 113-14 and 211-12. 1947-48 and alternate years. Summer term 1946—Physics 222 (3).
- 225-26 *Quantum Theory of Radiation and Particles (3-3)* Critchfield  
Theory of radiation, interaction of matter with radiation, positron theory, cosmic ray particles, general wave equations. Prerequisite: Physics 221-22. Evening.
- 232 *Advanced Electronics (3)* Brown  
Theory and design of electron tubes and electronic circuits. Lectures and problems. Prerequisite: Physics 132. Evening. Summer term 1946.
- 255-56 *Advanced Laboratory (3-3)* The Staff  
Special topics. One term of this course is required of all Master's candidates in physics. Not open to undergraduates. Material fee, \$6. Afternoon and evening sections.
- 261-62 *Theory of the Atomic Nucleus (3-3)* Gamow  
General theory of nuclear structure; electromagnetic radiation of nuclei; kinetics of nuclear reactions; fission-process and nuclear chain reactions; theory of nuclear forces. (Not offered in 1946-47.)
- 266 *Relativity and Gravitational Theory (3)* Gamow  
Basic principles, relativistic mechanics and electrodynamics, theory of gravitation, cosmology. Prerequisite: Physics 211-12. Evening.
- 275 *Structure of Stars (3)* Gamow  
Prerequisite: Physics 161 and 221. Evening.
- 291-92 *Seminar: Recent Developments in Physics (1-1)* The Staff  
Individual investigations of special problems. All students registered for a Master's degree in physics are expected to attend this seminar during residence for the degree, and to take part in its programs. Credit for participation in the seminar work may be obtained by registering for this course during the last two terms of residence; this credit, however, is based upon the seminar work during the entire period of residence. Alternate weeks, evening.
- 299-300 *Thesis (3-3)* The Staff



## PHYSIOLOGY

Errett Cyril Albritton, A.B., M.D., *Professor of Physiology, Executive Officer*

Chester Elwood Leese, Ph.D., *Associate Professor of Physiology*

Robert Custis Grubbs, A.B., M.S., M.D., *Assistant Professor of Physiology*

### 115 *Physiology* (3)

Leese and Staff

Lectures for academic students covering the fundamentals of physiology in its various subdivisions. Prerequisite: one year of general science or one term of a biological science. Section A: Tues., Thurs., and Sat., 9:10 A.M.; section B: Tues. and Thurs., 5:10 to 6:25 P.M.

### 117 *Physiology* (1)

Grubbs

Laboratory exercises in the fundamentals of physiology, for academic students. Prerequisite: Physiology 115 or the equivalent. The two, 115 and 117, may be taken concurrently. Material fee, \$12. Sat., 10:10 A.M. to 1:00 P.M.

### 132 *Physiology*

Albritton and Staff

One hundred physiological lectures in the following divisions, each as a unit: (1) blood, heart, circulation, respiration, and acid-base balance; (2) nutrition, digestion, metabolism, excretion, temperature regulation, and water balance; (3) sensory reception, central nervous processes, and somatic and visceral motor activity; (4) the endocrine glands and reproduction.

### 134 *Experimental Physiology*

Albritton and Staff

Laboratory work in each of the divisions listed in Physiology 132. Eight hours a week.

### 137 *First Aid*

Grubbs and Staff

Lectures by the staff and practical exercises conducted by qualified Red Cross First Aid instructors designed to enable the student to complete the "standard" course in First Aid and to appreciate the value and limitations of such training. One hour a week.

### 200 *Physiology of Endocrine Activity* (1 or 2)

Albritton

The circulatory, metabolic, reproductive, growth, and other adaptations, immediate and long term, accompanying and affecting endocrine activity. May be taken for two credits with additional work. Prerequisite: Physiology 115 or the equivalent. Tues., 5:10 P.M.

### 269-70 *Problems in Physiology*

Albritton and Staff

Hours and credits to be arranged.

### 272 *Experimental Method* (1)

Albritton

Design of controlled experiments in medical or biological investigation; errors in design; criticism and judgment of evidence, and tests of the statistical significance of experimental results. Sat., 10:00 A.M.

274 *The Psycho-physiology of Personality* (2) Leese  
Lectures on the genesis and expression of personality, with emphasis  
on the physiological approach. Tues. and Thurs., 6:10 P.M.

275-76 *Research* Albritton and Staff  
Hours and credits to be arranged.

## POLITICAL SCIENCE

Warren Reed West, Ph.D., *Professor of Political Science*

\*William Crane Johnstone, Jr., Ph.D., *Professor of Political Science*

John Albert Tillema, Ph.D., LL.M., S.J.D., *Professor of Political Science*

John Withrow Brewer, Ph.D., *Professor of International Law, Executive Officer*

Richard Carleton Spencer, Ph.D., *Professorial Lecturer in Political Science*

Luis Siegfried Quintanilla, L.-ès-L., Diplômé, Ph. D., *Professorial Lecturer in Political Science*

Robert Carnell Sampson, A.M., *Lecturer on Public Personnel Administration*

Elmer Boyd Staats, Ph.D., *Lecturer on Public Administration*

Allen Dailey Manvel, A.B., *Lecturer on Public Administration*

*Minimum requirements for the major.*—Prerequisite: Political Science 9-10. Required: twenty-four credit hours from the following groups distributed as follows: six hours from Group A; six hours from Group B; six hours from Group A, B, or C; six hours from Group A, B, C, or D.  
Group A: Political Science 111, 112, 117, 121-22. Group B: Political Science 171, 181-82. Group C: Political Science 115, 116, 141, 151, 161-62, 164, 192, 193, 194. Group D: Political Science 127, 128, 129, 130.

### FIRST GROUP

9-10 *Government of the United States*†  
(3-3)

West, Brewer

Morning and evening sections.  
Summer term 1946.

### SECOND GROUP†

111 *The Governments of Europe: the Democracies* (3)  
Evening.

Brewer

112 *The Governments of Europe: the Dictator States* (3)  
(Not offered in 1946-47.)

114 *The Soviet Union: Politics and Government* (3)  
Evening.

Quintanilla

\* On leave of absence 1946-47.

† Political Science 9-10 is prerequisite to all second-group courses.



115	<i>Municipal Government</i> (3) Evening.	Spencer
116	<i>Political Parties</i> (3) Evening.	Spencer
117	<i>Political Theory</i> (3) Summer term 1946.	West
121-22	<i>The Constitution of the United States</i> (3) Evening.	West
127	<i>Commercial Law: Contracts, Agency, and Bailments</i> (3) Morning and evening sections. Summer term 1946.	Tillema
128	<i>Commercial Law: Negotiable Instruments, Property, Sales, Mortgages</i> (3) Morning and evening sections. Summer term 1946.	Tillema
129	<i>Law in Relation to the Form of Business Units</i> (3) (Not offered in 1946-47.)	
130	<i>Maritime Law</i> (3) (Not offered in 1946-47.)	Tillema
141X	<i>The Development of Legal Institutions</i> (3) Evening.	Brewer
151	<i>Public Administration</i> (3) Evening. Summer term 1946.	_____
161-62	<i>Administrative Law</i> (3-3) Morning.	Tillema
164	<i>Governmental Budgeting</i> (3) Evening.	_____
171	<i>International Politics and Organization</i> (3) Evening.	_____
175	<i>International Politics in the Western Hemisphere</i> (3) Morning.	Quintanilla
176	<i>Current Trends in Latin American Politics and Government</i> (3) Morning.	Quintanilla

- 181-82 *International Law* (3-3) Brewer  
Morning.  
Summer term 1946—Political Science 181 (3).
- 192 *The Near East: Politics and Government since 1878* (3) Johnstone  
(Not offered in 1946-47.)
- 193 *Far Eastern Governments: China, India, Japan, and Colonial Dependencies* (3) Johnstone  
(Not offered in 1946-47.)
- 194 *Far Eastern Politics: Contemporary International Relations in the Pacific Area* (3) \_\_\_\_\_  
Evening.
- 199-200 *Proseminar: Readings for International Relations Major* (3-3) Brewer  
Time to be arranged.

## THIRD GROUP

- 207-8 *Proseminar: Legislative Organization* (3-3) West  
Evening.
- 209-10 *Seminar* (3) West  
(Not offered in 1946-47.)
- \*241 *Personnel Management and General Administration in the Operating Agency* (3) Sampson  
Evening.
- \*242 *Functions of a Departmental Personnel Office* (3) Sampson  
Evening.
- \*243 *Supervision and Personnel Management* (3)  
Offered in 1947-48 and alternate years.
- \*244 *The Employee and Public Service* (3)  
Offered in 1947-48 and alternate years.
- \*251 *Seminar: Principles and Problems of Governmental Organization* (3)  
Offered in 1947-48 and alternate years.
- \*252 *Governmental Budgeting* (3)  
Offered in 1947-48 and alternate years.
- \*253 *Seminar: Budgetary Controls of Government Management* (3)  
(Not offered in 1946-47.)

\* Primarily for majors in the School of Government.

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|---------|--|-------------|
| *255-56 | <i>Seminar: Federal Inter-bureau Relationships (3-3)</i><br>Evening.   | Staats      |
| *258    | <i>Seminar: Executive Planning and Control of Administration (3)</i><br>Evening.                                 | Manvel      |
| *271    | <i>Seminar: International Political Organization (3)</i><br>Evening.   | _____       |
| *272    | <i>Seminar: Population and World Politics (3)</i><br>Evening.  | _____       |
| *273    | <i>Seminar: International Administration (3)</i><br>Offered in 1947-48 and alternate years.                      |             |
| *274    | <i>Seminar: Objectives and Methods of Foreign Policy (3)</i><br>Offered in 1947-48 and alternate years.          |             |
| 277     | <i>Seminar: Latin American Politics and Government (3)</i><br>Evening.   | Quintanilla |
| 281-82  | <i>Seminar: International Law and Relations (3-3)</i><br>Evening.<br>Summer term 1946—Political Science 281 (3). | Brewer      |
| 293     | <i>Seminar: International Politics in the Pacific Area (3)</i><br>(Not offered in 1946-47.)                      | Johnstone   |
| 294     | <i>Seminar: Governments in the Pacific Area (3)</i><br>(Not offered in 1946-47.)                                 | Johnstone   |
| 299-300 | <i>Thesis (3-3)</i>  | The Staff   |

\* Primarily for majors in the School of Government.



## PSYCHIATRY

Winfred Overholser, A.B., M.D., Sc.D., *Professor of Psychiatry, Executive Officer*

Roscoe Willis Hall, Ph.B., M.D., *Clinical Professor of Psychiatry*

Solomon Katzenelbogen, M.D., *Clinical Professor of Psychiatry*

Addison McGuire Duval, M.D., *Assistant Clinical Professor of Psychiatry*

Harriet Elizabeth Twombly, A.B., M.D., *Associate in Psychiatry*

Samuel Alexander Silk, Ph.D., M.D., *Associate in Psychiatry*

Edgar Deucher Griffin, A.B., M.D., *Associate in Psychiatry*

Isabelle Kendig, Ph.D., *Associate in Psychiatry*

William Green Cushard, M.D., *Clinical Instructor in Psychiatry*

- 136 *Introductory Medical Psychology* Overholser and Staff  
Theoretical and practical aspects of the constitution, character, and personality as related to medicine; psychological features in various diseases; types of character development and their ways of adaptation. One hour a week.

- 278 *Psychopathology* Hall  
Manifestations and understanding of various abnormal mental mechanisms and reaction-types, illustrated with suitable case material, and preceded by history of development of psychopathology. One hour a week.

- 366 *Psychiatry* Overholser  
Major psychoses, illustrated by the presentation of clinical material and utilized for the purpose of explaining the fundamental psychological mechanisms involved. St. Elizabeths Hospital. One hour a week.

- 368 *Psychosomatic Aspects of General Medicine* Katzenelbogen  
Somatic disorders of functional origin versus organic structural disorders. The role of personality reactions in somatic disorders (illustrative cases). St. Elizabeths Hospital. One hour a week.

- 370 *Personality Adjustments*  
Maladaptations occurring in childhood and youth. One hour a week for eight weeks.

- 427-28 *Psychological Techniques in Psychiatric Practice* Kendig  
Discussion of psychological concepts and tools available for determination of intellectual level, personality structure, functional impairment, and organic deterioration. One hour a week for four weeks.

473-74 *Ward Work*

The Staff

Personal mental examinations and formal written report of the examination of the various types of psychoses, followed by a review of the cases with an instructor. St. Elizabeths Hospital. Two hours a week.

475 *Psychoneurosis*

Duval

The clinical aspects, the etiology, the psychopathology, and the treatment of the various psychoneuroses. One hour a week for twelve weeks.

## PSYCHOLOGY

Mitchell Dreese, Ph.D., *Professor of Educational Psychology*  
 Thelma Hunt, Ph.D., M.D., *Professor of Psychology, Executive Officer*  
 \*Henry Furness Hubbard, Ph.D., *Adjunct Professor of Psychology*  
 Royce Edwin Brewster, A.M., *Professorial Lecturer in Psychology*  
 Edwin Wallace Davis, Ph.D., *Associate Professor of Psychology*  
 Charles Norval Cofer, Ph.D., *Assistant Professor of Psychology*  
 Elizabeth Fehrer, Ph.D., *Assistant Professor of Psychology*  
 Curtis Edward Tuthill, Ph.D., *Assistant Professor of Psychology*  
 \*William Moore Loman, A.M., *Lecturer in Psychology*  
 Katharine Tait Omwake, Ph.D., *Visiting Lecturer in Psychology*  
 Alan Motter Kershner, A.M., *Lecturer in Psychology*  
 William Richard Bigger, A.M., *Lecturer on Personnel Administration*  
 Margaret Ives, Ph.D., *Lecturer in Psychology*

*Minimum requirements for the major.*—Prerequisite: Psychology 1 and three credit hours of any other first-group course in psychology. Required: Psychology 116, 131, 191, 196, and either 125 or 151; Physiology 115; Statistics 51 or 115-16 and nine credit hours elective in psychology or closely related fields or departments if specifically approved in advance by the Department of Psychology.

### FIRST GROUP

- 1 **General Psychology**† (3) The Staff  
 The fundamental principles underlying human behavior. Morning and evening sections.  
 Psychology 1x—same as Psychology 1, but offered winter term. Morning and evening sections.  
 Summer term 1946.

- 2 **Applied Psychology** (3) The Staff  
 The applications of psychology in business, industry, medicine, law, guidance, education, and social problems. Morning and evening sections.  
 Psychology 2x—same as Psychology 2, but offered fall term. Morning and evening sections.  
 Summer term 1946.

- 22 **Introduction to Educational Psychology** (3) \_\_\_\_\_  
 Consideration of individual and group differences, adjustments, and the psychology of learning in relation to education and training. Evening.

\* On leave of absence 1946-47.

† Psychology 1 is prerequisite to all other courses in psychology.



## SECOND GROUP\*

- 116 *Abnormal Psychology* (3) Hunt  
 The causes, diagnosis, treatment, and prevention of the various types of maladjustments and mental disorders. Morning.  
 Psychology 116x—same as Psychology 116, but offered fall term. Evening.  
 Summer term 1946.
- 121 *Educational Psychology* (3) \_\_\_\_\_  
 Consideration of individual and group differences, adjustment, and the psychology of learning in relation to education and training. Morning.
- 125 *Child Psychology* (3) \_\_\_\_\_  
 A genetic approach to the study of the child. Evening.  
 Psychology 125x—same as Psychology 125, but offered winter term. Morning.  
 Summer term 1946.
- 127 *Job Analysis and Job Information* (3) Kershner  
 Sources of information concerning jobs, occupations, and industries; job analysis; methods of classifying and relating occupations; preparation of job descriptions, specifications, and personnel inventories; supervised field work. Designed to meet the needs of counselors and personnel workers in government and industry. Evening.
- 131 *Psychological Tests* (3) Hunt, Fehrer  
 A survey of psychological tests and their more common uses in business, industry, government, law, medicine, and education. Material fee, \$2.25. Morning.  
 Psychology 131x—same as Psychology 131, but offered winter term. Evening.  
 Summer term 1946.
- 132 *Individual Psychological Testing* (3) Hunt, Fehrer  
 Instruction and practice in giving of the Binet test and other individual psychological tests. Prerequisite: Psychology 131. Material fee, \$2.25. Afternoon.  
 Psychology 132x—same as Psychology 132, but offered fall term. Afternoon.
- 141 *Psychology of Advertising and Selling* (3) \_\_\_\_\_  
 Fundamental procedures of advertising and selling, with emphasis on the application of psychological principles. Evening.
- 142 *Business and Industrial Psychology* (3) \_\_\_\_\_  
 Application of psychological principles to business and industry. Evening.

\* Psychology 1 is prerequisite to all other courses in psychology.

- 143-44 Public Personnel Psychology (3-3)** Bigger  
Fall term: personnel selection; winter term: inservice personnel activities. Evening.  
Summer term 1946—Psychology 143(3).
- 146 Employee Counseling (3)** Davis  
A study of the principles and techniques of individual counseling as applied to employees, with special reference to the problems of counselors in government and industry. (Not offered in 1946-47.)
- 148 Rehabilitation of the Handicapped (3)** Hunt  
Rehabilitation agencies and organizations; types of handicaps; disability rating and evaluation; restoration; educational and vocational training; and selective occupational placement. (Not offered in 1946-47.)
- 151 Social Psychology (3)** Tuthill  
The social foundations of attitudes and behavior. Individual adjustment to group situations, such as the family, school, fraternity, and occupation. The psychological bases of race prejudice, nationalism, and war. Morning.  
Psychology 151x—same as Psychology 151 but offered winter term. Evening.  
Summer term 1946.
- 156x Propaganda and Public Opinion (3)** Tuthill  
The formation of individual and group opinions in democracies and dictatorships. The means by which publics are influenced, particularly in social crises. Consideration of morale, rumor, and social leadership. Prerequisite: Psychology 151. Evening.
- 162 Comparative Psychology (3)** Fehrer  
A survey of psychological processes in infrahuman organisms, with special emphasis on the evolution of animal behavior from the lowest forms to man. (Not offered in 1946-47.)
- 172 Psychology of Personality (3)** Cofer  
Contemporary approaches to the study of personality. Morning.  
Psychology 172x—same as Psychology 172, but offered fall term. Evening.  
Summer term 1946.
- 191 Experimental Psychology (3)** Fehrer  
The application of experimental methods to various psychological problems. Material fee, \$6.00. Evening.  
Psychology 191x—same as Psychology 191, but offered winter term. Afternoon.  
Summer term 1946.
- 192 Problems in Experimental Psychology (3)** Fehrer  
Opportunity for work on individual experimental projects. Prerequisite: Psychology 191. Open each term to a small number of students by permission of the instructor. Time to be arranged.

- 196 *History and Systems of Psychology* (3) Fehrer  
A survey of the contemporary schools of psychology. Evening.  
Psychology 196x—same as Psychology 196, but offered fall term.  
Morning.

- 197-98 *Field Work in Psychology* (3-3) The Staff  
Supervised field work in agencies providing psychological service. Admission by permission of the Executive Officer of the Department.  
Time to be arranged.  
Summer term 1946.

### THIRD GROUP\*

- 201 *Seminar: Advanced General Psychology* (3) ———  
General review of the field for graduate students with an intensive study of selected problems. Required in all graduate programs.  
Morning.

- 203-4 *Research in Psychology* The Staff  
Time and credits to be arranged.  
Summer term 1946.

- 211 *Seminar: Advanced Abnormal Psychology* (3) Cofer  
Afternoon.

- 212 *Seminar: Personality Evaluation* (3) Cofer  
Evening.

- 218 *Structural Factors in Behavior* (3) Hunt  
A study of the endocrine glands as they affect behavior. Evening.

- 221 *Seminar: Educational Psychology* (3) ———  
A survey of recent literature on individual differences and learning, with emphasis on their educational applications. (Not offered in 1946-47.)

- 226 *Seminar: Clinical Psychology of Childhood* (3) Hunt  
A study of behavior problems, personality disturbances, and mental disorders of children, with clinic observations. Offered each term on the independent study plan to a limited number of students.

- 227 *Seminar: Educational and Vocational Guidance* (3) Dreese  
An introduction to the techniques of educational and vocational guidance and the application of these procedures in various types of guidance agencies. Evening.  
Summer term 1946.

\*Psychology 1 is prerequisite to all other courses in psychology.



- 228 *Seminar: Techniques of Counseling* (3) Dreese  
A detailed study of counseling techniques and the types of counseling problems likely to confront teachers, employee counselors, vocational counselors, and veterans' advisers. Evening.
- 229 *Seminar: Occupational and Educational Information* (3) Davis  
Designed to acquaint vocational and educational counselors with the basic occupational and educational information necessary in counseling. Sources of data and techniques of collecting, analyzing, and disseminating for purposes of guidance. Evening.
- 231 *Test Construction* (3)  
The principles underlying the construction, evaluation, and standardization of psychological, educational, and vocational tests, with practice in the construction of tests. Prerequisites: an elementary course in tests and measurements and an elementary course in statistics. Evening.
- 232 *Research: Test Construction* (3) Hunt  
Individual projects in construction and evaluation of psychological, educational, or vocational tests. Prerequisite: Psychology 231. Time to be arranged.
- 255x *Seminar: Techniques of Opinion and Attitude Measurement* (3) Tuthill  
Methods of attitude measurement (interviews, questionnaires, scales, polls) as currently used by private and governmental investigators. The place of attitude studies in the school, industry, etc. Afternoon.
- 299-300 *Thesis* (3-3) The Staff  
Summer term 1946.

## CLOSELY RELATED COURSES IN OTHER DEPARTMENTS

- Education 252, *Guidance in Secondary Schools*  
Physiology 115, *Physiology*  
Physiology 117, *Physiology*  
Physiology 200, *Physiology of Endocrine Activity*  
Physiology 274, *The Psycho-physiology of Personality*  
Political Science 241, *Personnel Management and General Administration in the Operating Agency*  
Political Science 242, *Functions of a Departmental Personnel Office*  
Political Science 243, *Supervision and Personnel Management*  
Political Science 244, *The Employee and Public Service*

## ROMANCE LANGUAGES AND LITERATURES

Henry Grattan Doyle, A.M., *Professor of Romance Languages*

Merle Irving Protzman, Ph.D., *Professor of Romance Languages*

Louis Clark Keating, Ph.D., *Professor of Romance Languages, Executive Officer*

Alan Thomas Deibert, A.M., *Associate Professor of Romance Languages*

Irene Cornwell, Ph.D., *Associate Professor of French*

Antonio Alonso, A.M., *Associate Professor of Spanish*

Alberto Vázquez, Ph.D., *Lecturer in Spanish American Literature*

Georgette DuPuy Caskie, L.-ès.-L., *Instructor in Romance Languages*

Maria Esther Lopez-Lavalle, A.M., *Instructor in Spanish*

Jacqueline Chevallaz, B.S., *Instructor in French*

*The majors.*—The Department of Romance Languages offers three majors administered under the field-of-study plan, and provides proseminars intended to assist the student in preparing himself for the respective major examinations. These are: (1) a *Major in French Literature* (proseminar: French 199-200); (2) a *Major in Spanish Literature* (proseminar: Spanish 199-200); and (3) a *Major in Spanish American Literature* (proseminar: Spanish 197-98). The members of the staff in charge of the respective proseminars are designated as advisers in the respective fields. In these majors, emphasis will be laid upon the political, social, and cultural background of the literature studied, as well as upon writers and their works. A reasonable proficiency in the spoken language will be required. For further details, see the pamphlet on the subject or consult the Executive Officer of the Department or the appropriate adviser.

### FRENCH

#### FIRST GROUP

†1-2 *First-year French* (3-3) Keating, Cornwell, and Staff  
For beginners. Grammar, composition, drill in pronunciation, translation of modern French prose. Morning and evening sections.

French 1x—same as French 1, but offered winter term. Morning and evening sections.

French 2x—same as French 2, but offered fall term. Morning and evening sections.

Summer term 1946.

1-2x *First-year French* (accelerated) (6) Protzman  
Same as French 1-2, but full year given in fall term on an accelerated basis. Morning.

†5-6 *Second-year French* (3-3) Deibert and Staff  
Advanced grammar and composition, reading in modern French prose, oral practice, introduction to French civilization. Prerequisite: French 1-2 or two years of high school French. Morning and evening sections.

French 5x—same as French 5, but offered winter term. Morning and evening sections.

French 6x—same as French 6, but offered fall term. Morning and evening sections.

Summer term 1946.

- 5x-6 *Second-year French* (accelerated) (6) Protzman  
Same as French 5-6, but full year given in the winter term on an accelerated basis. Morning.

#### SECOND GROUP

French 5-6 or the equivalent is prerequisite to all second-group courses in French.

- †109-10 *Conversation and Composition* (3-3) Caskie  
Morning and evening sections.  
Summer term 1946.

- 119-20 *Literature of the Sixteenth Century* (3-3) Keating  
Prose, poetry, drama, and memoirs of the French Renaissance; Rabelais, Montaigne, Marot, La Pléiade, etc. Class analysis of texts; collateral reading. Recommended: History 120. 1947-48 and alternate years, morning.

- 121-22 *Literature of the Seventeenth Century* (3-3) Protzman  
History, philosophy, criticism, memoirs, letters, eloquence, drama, fiction, poetry. Class analysis of texts; collateral reading. Evening.

- 123-24 *Literature of the Eighteenth Century* (3-3) Deibert  
History, philosophy, criticism, letters, drama, fiction, poetry, the "salons", the idea of progress, the idea of science. Class analysis of texts; collateral reading; lectures on literature and history. 1947-48 and alternate years, evening.

- 125-26 *Literature of the Nineteenth Century* (3-3) Keating  
Romanticism and realism: fiction, poetry, drama, criticism. Class analysis of texts; collateral reading; lectures on literature and history. 1946-47 and alternate years, morning.

- 127-28 *Literature of the Twentieth Century* (3-3) Keating  
Fiction, poetry, drama, criticism. Class analysis of texts; collateral reading; lectures on literature and history. (Not offered in 1946-47.)  
Summer term 1946—French 127(3).

- 129-30 *French Drama* (3-3) Protzman  
Studies of the principle dramatic movements and theories from the origins to the present, with class analysis of representative plays and individual reports to the class on supplementary plays. Morning.

- 131-32 *History of French Literature and Civilization* (3-3) Cornwell  
The masterpieces of French literature and their social, political, and cultural background. Lectures, recitations, and informal discussions. (Not offered in 1946-47.)



- 133-34 *Contemporary French Fiction* (3-3) Cornwell  
Study of the principal writers and their works. Time to be arranged.
- 199-200 *Proseminar: Readings for the Major in French Literature* (3-3) Protzman  
Conferences and group discussions. Time to be arranged.

## THIRD GROUP

- 227-28 *Seminar in Modern French Literature* (3-3) Keating  
Prerequisite: a second-group course in French literature. The topic for 1946-47 will be a study of representative novelists of the twentieth century. 1946-47 and alternate years. Time to be arranged.
- 229-30 *Seminar in Classical French Literature* (3-3) Protzman  
Prerequisite: a second-group course in French literature. 1947-48 and alternate years. Time to be arranged.
- 233-34 *Seminar in Contemporary French Fiction* (3-3) Cornwell  
Prerequisite: a second-group course in French literature. Time to be arranged.
- 249-50 *Old French\** (3-3) Doyle  
Phonology and morphology of Old French, with an outline of its development through Vulgar Latin; survey of French literature to the end of the thirteenth century. Prerequisite: a second-group course in French literature; an elementary knowledge of Latin. Time to be arranged.
- 251-52 *Middle French\** (3-3) Doyle  
French literature of the fourteenth and fifteenth centuries. Class analysis of texts; collateral reading. Prerequisite: a second-group course in French literature. Knowledge of Old French desirable. Time to be arranged.
- 299-300 *Thesis* (3-3) The Staff

## PORTUGUESE

## FIRST GROUP

- †1-2 *First-year Portuguese* (3-3) Bueno  
For beginners. Grammar, composition, drill in pronunciation, translation of modern Portuguese prose. Mon., Wed., and Fri., 7:10 P.M.
- †5-6 *Second-year Portuguese* (3-3) Bueno  
Advanced grammar and composition, reading of modern Portuguese prose, oral practice, introduction to Portuguese and Brazilian civilization. Prerequisite: Portuguese 1-2 or the equivalent. Mon., Wed., and Fri., 6:10 P.M.

\* Only one of these courses (French 249-50, 251-52, and Spanish 249-50) will be given in 1946-47, depending on the demand.

## SECOND GROUP

Portuguese 5-6 or the equivalent is prerequisite to all second-group courses in Portuguese.

- 127-28 *Portuguese and Brazilian Literature* (2-2) ———  
Evolution of the Portuguese language; outline of the literature of Portugal (fall term) and Brazil (winter term). Lectures, readings, written reports. Conducted in Portuguese. Time to be arranged.

## SPANISH

## FIRST GROUP

- 1-2 *First-year Spanish* (3-3) Protzman and Staff  
For beginners. Grammar, composition, drill in pronunciation, translation of modern Spanish prose. Morning and evening sections.  
Spanish 1x—same as Spanish 1, but offered winter term. Morning and evening sections.  
Spanish 2x—same as Spanish 2, but offered fall term. Morning and evening sections.  
Summer term 1946.
- 1-2x *First-year Spanish* (accelerated) (6) Downing  
Same as Spanish 1-2, but full year given in fall term on an accelerated schedule. Evening.
- 5-6 *Second-year Spanish* (3-3) Alonso and Staff  
Advanced grammar and composition, reading of modern Spanish prose, oral practice, introduction to Hispanic civilization. Prerequisite: Spanish 1-2 or two years of high school Spanish. Morning and evening sections.  
Spanish 5x—same as Spanish 5, but offered winter term. Morning and evening sections.  
Spanish 6x—same as Spanish 6, but offered fall term. Morning and evening sections.  
Summer term 1946.
- 5x-6 *Second-year Spanish* (accelerated) (6) Downing  
Same as Spanish 5-6, but full year given in winter term on an accelerated schedule. Evening.

## SECOND GROUP

Spanish 5-6 or the equivalent is prerequisite for all second-group courses in Spanish.

- 109-10 *Conversation and Composition* (3-3) Alonso  
Morning and evening sections.  
Summer term 1946.
- 111-12 *Commercial Spanish* (3-3) Meléndez  
Evening.

- 121-22 *Spanish Literature of the Golden Age* (3-3) Alonso  
Cervantes, Lope de Vega, Calderón; the classic drama, fiction, the ballad, lyric poetry. Class analysis of texts; collateral reading; lectures on literature and history. Evening.
- 123-24 *Cervantes* (3-3) Doyle  
Life and works of Cervantes. The Quixote, the Novelas Ejemplares, and other works. Offered in 1946-47 and alternate years, morning.
- 125-26 *Modern Spanish Literature* (3-3) Alonso  
Prose and poetry of the eighteenth, nineteenth, and twentieth centuries. Class analysis of texts; collateral reading; lectures on literature and history. Morning.
- 129-30 *The Spanish American Novel* (3-3) Vázquez  
Development of the novel in Spanish America. Lectures, collateral reading, and class analysis of texts.  
Summer term 1946—Spanish 130(3).
- 137-38 *Spanish American Literature: South America* (3-3) Vázquez  
Development of the literature of the Spanish-speaking countries of South America. Lectures, collateral reading, and class analysis of important works. 1946-47 and alternate years, evening.
- 139-40 *Spanish American Literature: The Caribbean Area* (3-3) Vázquez  
Development of the literatures of the Spanish-speaking countries of Central America, the West Indies, and Mexico. Lectures, collateral reading, and class analysis of important works. 1947-48 and alternate years, evening.
- 141-42 *The Modernista Movement in Latin America* (3-3) Vázquez  
A study of the personalities, works, and trends of this movement (Not offered in 1946-47.)
- 197-98 *Proseminar: Readings for the Major in Spanish American Literature* (3-3) Vázquez  
Conferences and group discussions. Time to be arranged.
- 199-200 *Proseminar: Readings for the Major in Spanish Literature* (3-3) Alonso  
Conferences and group discussions. Time to be arranged.

## THIRD GROUP

- 225-26 *Seminar in Spanish Literature* (3-3) Alonso  
Prerequisite: a second-group course in Spanish literature. 1947-48  
and alternate years. Time to be arranged.



227-28 *Seminar in Spanish American Literature* Vázquez  
(3-3)

Prerequisite: a second-group course in Spanish American literature.  
1946-47 and alternate years. Time to be arranged.

249-50 *Old Spanish* (3-3) Doyle

Literature and philology: *Poema del Cid*, *Libro de Buen Amor*, *Conde Lucanor*, etc.; Menéndez Pidal's *Manual elemental de gramática histórica española* and Ford's *Old Spanish Readings*. Prerequisite: a second-group course in Spanish literature; an elementary knowledge of Latin. Time to be arranged.

299-300 *Thesis* (3-3) The Staff

## SECRETARIAL STUDIES

Dorothy Helene Veon, A.M., *Assistant Professor of Secretarial Studies,  
Executive Officer*

Lewis Rensselaer Toll, M.S., *Lecturer in Secretarial Studies*

Virginia Randolph Kirkbride, A.M., *Associate in Secretarial Studies*

Mary Ellen Meiring, A.M., *Associate in Secretarial Studies*

*Requirements for the degree of Associate in Arts in Secretarial Studies.*—See page 60.

*Requirements for the degree of Bachelor of Science in Secretarial Administration.*—See special bulletin.

### FIRST GROUP

- 1 *Elementary Typewriting* (2) Veon, Meiring  
Fundamentals of typewriting, styles of business letters and forms, principles of tabulation, and machine dictation. Laboratory fee, \$4.50. Morning and evening sections.  
Secretarial Studies 1x—same as Secretarial Studies 1, but offered winter term. Evening.
- 2 *Intermediate Typewriting* (2) Veon, Meiring  
The business letter and its arrangement, advanced tabulation, manuscript typing, office forms, stencil cutting, and legal documents. Prerequisite: Secretarial Studies 1 or the equivalent; ability to type accurately at 30 words a minute. Laboratory fee, \$4.50. Morning and evening sections.  
Secretarial Studies 2x—same as Secretarial Studies 2, but offered fall term. Evening.
- 11 *Elementary Shorthand and Transcription* (4) Veon  
A functional study of the principles of Gregg shorthand correlating dictation and transcription. Minimum dictation speed of 60 words a minute attained. Laboratory fee, \$1.50. Morning and late afternoon sections.
- 12 *Intermediate Shorthand and Transcription* (4) Veon  
Review of the principles of Gregg shorthand; dictation and transcription on general and specialized business subjects. Minimum dictation speed of 80 words a minute attained. Prerequisite: Secretarial Studies 11 or the equivalent; ability to take dictation at 60 words a minute. Laboratory fee, \$1.50. Morning and late afternoon sections.
- 15 *Advanced Shorthand, Transcription, and Typewriting Problems* (3) Veon, Kirkbride  
Emphasis on speed and accuracy. Minimum speed of 100 words a minute attained in dictation. Prerequisite: Secretarial Studies 12 or the equivalent; ability to take dictation at 80 words a minute and to transcribe accurately; ability to type 50 words a minute. Laboratory fee, \$1.50. Afternoon and evening sections.

**16 Secretarial Shorthand and Transcription (3)**

Veon, Kirkbride

Dictation and transcription involving vocabularies used in specific businesses and professions. *Minimum* dictation speed of 120 words a minute attained. Prerequisite: Secretarial Studies 15 or the equivalent; ability to take dictation at 100 words a minute and to transcribe accurately; ability to type 55 words a minute. Laboratory fee, \$1.50. Afternoon and evening sections.

**41 Business Mathematics (3)**

Review of fundamentals; discounts and interests, annuities, investment evaluation, inventories and depreciation, etc. (Not offered in 1946-47.)

**51-52 Business Communication (3-3)**

Toll

The technique of communication forms with reference to business letters, memorandums, and reports. Prerequisite: English 1 and 2. Evening.

**54 Secretarial Practice (3)**

The Staff

Training in secretarial duties and in the use of secretarial equipment and supplies. Actual office experience involving the taking of dictation and the transcribing of various materials; composing business letters, reports, and other forms; preparing bills, statements, financial forms, and statistical records; modern filing systems. Special adaptation made for the medical secretary. Prerequisite: Secretarial Studies 15 and 51; Business Administration 51; or the equivalent. Time to be arranged.

**SECOND GROUP****123-24 Specialized Reporting (3-3)**

Veon

Specialized terminology, special forms, and technical vocabulary building. Prerequisite: Secretarial Studies 12 or the equivalent. Evening.

**171 Problems of the Administrative Assistant (3)**

Veon

Principles and problems in the supervision of business offices, with special reference to personnel, management, and finance. Evening.

**RELATED COURSE IN ANOTHER DEPARTMENT**

Education 167, *Teaching Secretarial Training Courses*



## SOCIOLOGY

Harold Loran Geisert, Ph.D., *Professor of Sociology, Executive Officer*

*The major.*—Prerequisite: Sociology 27 and 28. Required: twenty-four credit hours of second- and third-group courses in sociology. With special permission, a maximum of six credit hours of the following closely related courses may be counted toward the major: Economics 141, 142, and 146; History 171-72; Philosophy 132; Psychology 125, 151, and 156; Statistics 115-16. Additional courses from this list are highly recommended as electives.

### FIRST GROUP

- 27 *Organization of Society* (3) Geisert  
The origin and development of culture, man's social nature, types of groups and social institutions, social processes, social change and social control. Morning and evening sections.
- 28 *Problems of Society* (3) Geisert  
Population problems; psycho-physical problems; problems of race and nativity, social institutions, and social control in war and peace. Morning and evening sections.

### SECOND GROUP

- 121 *Educational Sociology* (3)  
The relation of the school to the community, school culture, social control in the school, sociological principles for the construction of the curriculum. (Not offered in 1946-47.)
- 125 *Rural Sociology* (3) Geisert  
The origin and development of rural culture, types of rural communities, rural social institutions and personalities, relation to city life, present rural problems and rural planning. Evening.
- 126 *Urban Sociology* (3) Geisert  
Types of cities; their origin, growth, social structure, composition, functions, and problems; urban personalities and institutions; urbanization and social control; city planning. Evening.
- 135 *Child-Welfare Problems* (3)  
Social aspects of infant and child morbidity and mortality; socializing the child through the home, play group, and school; the physically handicapped child; dependent children; child labor; juvenile delinquency. (Not offered in 1946-47.)

136 *Criminology* (3)

Geisert

The nature, types, and distribution of crime; causes of criminal behavior; the machinery of justice; types of treatment; recidivism; rehabilitation; crime-prevention programs. Field trips to local penal institutions. Morning.

141 *Population* (3)

Geisert

The nature and composition of populations, theories of population growths, qualitative and quantitative differences in population groups, and an analysis of population movements. Morning.

## SPEECH

Harold Friend Harding, Ph.D., *Depew Professor of Speech, Executive Officer*

Henry Goddard Roberts, A.M., *Associate Professor of Speech*

Winfield DeWitt Bennett, A.M., LL.B., *Associate Professor of Speech*

Douglas Wagner Ehninger, B.S., A.M., *Assistant Professor of Speech*

Calvin Weir Pettit, Ph.M., *Assistant Professor of Speech*

Charles Gordon Shaw, A.M., *Associate in Speech*

Floyd Lorang Sparks, A.B., *Teaching Fellow in Play Production*

*The major.*—Required: twenty-four credit hours of second- and third-group courses. Recommended in addition: English 175, 183-84; Philosophy 111-12 and 121; Psychology 151.

### FIRST GROUP

- 1 *Principles of Effective Speaking* (3) The Staff  
Short informative speeches; delivery practice; pronunciation, enunciation, and diction; impromptu speaking. Speech recordings are required. Recording fee, \$1.50. Morning, afternoon, and evening sections.  
Speech 1x—same as Speech 1, but offered winter term. Morning and evening sections.  
Summer term 1946.
- 2 *Persuasive and Entertaining Speaking* (3) The Staff  
Special emphasis is placed on persuasive and entertaining speeches. This course is a continuation of Speech 1, which is prerequisite. Recording fee, \$1.50. Morning, afternoon, and evening sections.  
Speech 2x—same as Speech 2, but offered fall term. Morning and evening sections.  
Summer term 1946.
- 11 *Training the Speaking Voice* (3) The Staff  
Developing ease, naturalness, and clarity in the speaking voice. Analysis of individual voices through recordings. Phonetic approach to the study of the sounds of English and the standards of speech. Class instruction in the problems of rate, volume, pitch, and quality. Recording fee, \$1.50. Morning and afternoon sections.  
Speech 11x—same as Speech 11, but offered winter term. Morning and evening sections.  
Summer term 1946.
- 42 *Parliamentary Law* (2) Roberts  
The correct procedure in forming an organization and in conducting its meetings in an orderly and businesslike manner. Evening.
- 61-62 *Acting* (3-3) Sparks  
Body movement; basic expression and character analysis; interpretation; and make-up. Recording fee, \$1.50. Evening.



- 65-66 *Stagecraft* (3-3) Sparks  
Building, painting, lighting, and rigging of stage scenery. Afternoon.
- 71-72 *Speech Clinic*  
Individual and group lessons for problems of voice and articulation: lisping, dialects, cleft palate speech, sound substitutions, stammering. (Not offered in 1946-47.)
- 73 *American Speech for Foreign Students* (3)  
Class limited to foreign born students. Instruction in the formation of the sounds of spoken English, with emphasis on rhythm and inflection. The International Phonetic Alphabet is used. Analysis of individual voices through recordings. Recording fee, \$1.50. (Not offered in 1946-47.)

## SECOND GROUP

- 102 *Oral Interpretation of Literature* (3) Harding and Staff  
Reading to others: theory and practice in the problems of communicating meaning and emotion. Selections for study include poetry and prose. Prerequisite: Speech 11. Recording fee, \$1.50. Evening.  
Speech 102x—same as Speech 102, but offered fall term. Morning.  
Summer term 1946.
- 109 *Radio Speaking* (3) Shaw  
Radio speeches, interviews, and discussions; news reporting; interpretation of the news; plays. Prerequisite: three credit hours of speech. Recording fee, \$3. Evening.  
Summer term 1946.
- 121 *Argumentation and Debate* (3) The Staff  
The methods of influencing the beliefs or actions of others by means of reasoned discourse; practice debates on problems and on public questions. Prerequisite: Speech 1. Morning and afternoon sections.
- 124 *Congressional Debate* (3) Harding  
Current public questions being debated in the House and Senate of the United States; techniques of discussion both in committee and on the floor. Prerequisite: six credit hours of speech. Afternoon.
- 131 *Group Thinking and Conference Leadership* (3)  
The process of thinking and problem-solving in committees and small groups, and the methods of leading discussions and conferences. Prerequisite: six credit hours of speech or permission of the instructor. (Not offered in 1946-47.)
- 134 *Business Interviews and Speeches* (3)  
Organization and presentation of facts and opinions for interviews; the use of interviews to obtain information. Reports, sales talks, and discussions. Prerequisite: Speech 1. (Not offered in 1946-47.)
- 145-46 *English and American Orators and Oratory* (3-3) Roberts  
Fall term: a survey of English orators and oratory; winter term: a survey of American orators and oratory from colonial days to recent times. Prerequisite: six credit hours of speech. Time to be arranged.

158 *Legal Argument* (3)

Bennett

Opening and closing addresses before juries, practice in summation and presentation of factual information, interpreting and emphasizing evidence, study of models of forensic eloquence, speech composition. Designed for pre-legal students. Prerequisite: three hours of speech or Psychology 157. (Not offered in 1946-47.)

163-64 *Play Production* (3-3)

Sparks

Problems of play preparation, staging, directing, and character portrayal. Prerequisite: Speech 62 or 66. Evening.

169-70 *Play Production Practice* (3 or 6)

Sparks

By permission of the instructor. Time to be arranged.

191-92 *History of the Theory of Public Speaking* (3-3)

Harding

Classical and English rhetorical theory, including the works of Aristotle, Cicero, Quintilian, Longinus, Wilson, Campbell, Blair, and Whately. Prerequisite: six credit hours of speech. Time to be arranged.

## THIRD GROUP

201-2 *Seminar* (3-3)

Harding, Roberts

Time to be arranged.

## STATISTICS

Frank Mark Weida, Ph.D., *Professor of Statistics, Executive Officer*  
 Dorothy Jeanne Morrow, M.S., *Assistant Professor of Statistics*  
 Solomon Kullback, Ph.D., *Lecturer in Statistics*

*Minimum requirements for the major.*—Prerequisite: Mathematics 12, 19, and 20; Philosophy 1-2; an introductory course in one of the social sciences, one of the biological sciences, or one of the physical sciences. Required: an understanding of the underlying mathematical theory employed to characterize, compare, and elucidate quantitative or qualitative measurements which are found in Statistics 115, 116, 117, 118, 155, 156, 157, 158; a minimum of twenty-four credit hours of second-group courses in departments unrelated to statistics. For further details, consult the adviser.

### FIRST GROUP

#### 51 *Elementary Statistics* (3) The Staff

Collection of data, classification and tabulation, averages, construction and use of index numbers and quotients, dispersion, analysis of frequency distribution, time series, correlation, and graphic presentation. Prerequisite: one entrance unit in algebra. Laboratory fee, \$5. Lecture (2 hours)—morning and evening sections; laboratory (1 2/3 hours)—afternoon and evening sections.

Statistics 51x—same as Statistics 51, but offered winter term. Evening.

Summer term 1946.

#### 52 *Mathematics of Finance* (3) The Staff

Interest and discount, annuities, valuation of stocks and bonds, sinking funds, amortization, valuation of depletable assets, depreciation, building and loan associations. Prerequisite: one entrance unit in algebra. Morning and evening sections.

Summer term 1946.

### SECOND GROUP

#### 100 *Intermediate Statistics* (3) The Staff

Linear and non-linear correlation, multiple and partial correlation, sampling and sampling errors, probability, the normal curve, statistical forecasting, reliability and validity of tests, trend and regression analysis. Prerequisite: Statistics 51. Laboratory fee, \$5. Lecture (2 hours), laboratory (1 2/3 hours)—evening.

#### 105 *Statistical Charts and Graphs* (3) Morrow

Line graphs, logarithmic graphs, bar charts, area and solid diagrams, correlation charts, statistical maps, control charts, curve-fitting, nomograms, elementary drafting, lettering and reproduction of graphs. Laboratory fee, \$5. (Offered in 1947-48.)



- †115-16 *Principles of Statistical Methods* (3-3) The Staff  
This course emphasizes the meaning, uses, and applications of: variates and attributes, measurement and enumeration, averages and dispersion, frequency distributions and their characteristics, errors of measurement and their control, index numbers, trends, cyclical relatives, purposive and random sampling in theory and practice and their errors and estimates, correlation in theory, practice, and applications. Prerequisite: one entrance unit in algebra. Laboratory fee, \$5 a term. Lecture (2 hours)—morning and evening sections; laboratory (1 2/3 hours)—afternoon and evening sections. Summer term 1946.
- 117 *Analysis of Variance* (3) Weida  
The analysis of variance and covariance to segregate factors producing significant variation, a method to estimate experimental error, multiple classification with unequal class frequencies. Prerequisite: Statistics 115-16. Evening.
- 118 *Correlation and the Chi-Square Test* (3) Weida  
Advanced study of simple, partial, and multiple correlation. Rank correlation, the method of contingency, and the problem of normal and non-normal populations. Tests of independence, likeness, and goodness of fit. Prerequisite: Statistics 115-16. Evening.
- †155-56 *Mathematical Probability* (3-3) Morrow  
Definitions, enumeration of cases, total and compound probability, repeated trials, Bayes' theorem and postulate, Bernoulli's theorem and its experimental verification, mathematical expectation, law of large numbers and its applications. Prerequisite: Mathematics 20 and Statistics 115-16. Evening.
- †157-58 *Mathematical Statistics* (3-3) Weida  
Statistics as a science, types of problems, relative frequency and probability, binomial and multinomial distributions, Pearson system of curves, Gram-Charlier series, Cauchy distribution, correlation by regression method, Lexis theory of dispersion, generating functions, simple sampling theory, moments and semi-invariants. Prerequisite or concurrent registration: Statistics 155-56. Evening.
- 159 *Calculus of Observations* (3) Morrow  
Interpolation; finite differences; least squares and theories of error; method of iteration; numerical differentiation and integration; numerical solution of algebraic, transcendental, differential, and integral equations; errors of observation; practical Fourier analysis; empirical formulas; and curve fitting. Prerequisite or concurrent registration: Statistics 155-56. 1947-48 and alternate years.
- 160 *Quality Control Techniques* (3) Morrow  
Characteristics; scientific basis; reduction in cost of inspection, rejections, and tolerance limits; quality as an attribute; distribution of quality characteristics; laws basic to control; statistical and maximum control; detection of lack of control. Prerequisite: Statistics 157-58. 1947-48 and alternate years.

†197-98 *Statistical Mathematics\** (3-3)

Morrow

Matrix algebra, quadratic forms, contour integration, measure theory. Stieltjes integration, Cauchy theory of residues,  $n$ -dimensional geometry in flat spaces. Prerequisite: Mathematics 138 or the equivalent. Evening.

†199-200 *Proseminar: Theoretical and Applied Statistics* (3-3)

The Staff

In addition to the study of recent advances in statistical methods, this course is designed to coordinate the content of the baccalaureate major. Admission by permission of the instructor. Time to be arranged.

## THIRD GROUP \*

201 *Design of Experiments* (3)

Morrow

Relative merits of random, repeated, stratified, and double sampling; Fisher-Pitman method of randomization; randomized blocks; Latin squares; factorial design; confounding, partial confounding. 1947-48 and alternate years.

202 *Theory of Estimation and Testing Hypotheses* (3)

Morrow

Statistical hypotheses; maximum likelihood estimate; Markoff's best estimate; Neyman-Pearson theory of testing hypotheses; Bayes' theory; consistent, efficient, and sufficient statistics; theory of confidence intervals. 1947-48 and alternate years.

†203-4 *The Theory of Econometrics* (3-3)

Weida

Statistical methods applied to the analysis of production, supply, and demand; utility and disutility; interest and taxation; exchange. Stress is placed on the interpretation of results in terms of probability. Correlation and regression of time series. 1948-49 and alternate years.

†257-58 *Advanced Mathematical Statistics* (3-3)

Weida

Mathematical basis of distribution functions, moments and cumulants, probability and likelihood, sampling distributions exact and approximate, Chi-square distribution, association and contingency. Various conceptions of correlation, individual difference problem, time series, regression analysis, analysis of variance, theories of inference. 1947-48 and alternate years.

†259-60 *Advanced Mathematical Probability* (2-2)

Kullback

Modern theories and asymptotic laws; elementary theory of definite integration; limit theorems in probability; the contributions of Cramer, Frechet, Kolmogoroff, Khintchine. Prerequisite: Statistics 257-58 or the equivalent. Evening.

\* Statistics 197-98 is prerequisite to all third-group courses.

- †263-64 *Statistical Inference* (2-2) Weida  
 Sample space; methods for estimating population parameters; fiducial inference and its application to testing hypotheses; valid, efficient, and exact estimation; Student distribution; variance distribution; sampling statistics, i.e., moments and cumulants used as estimates of population parameters and used to test hypotheses. Prerequisite or concurrent registration: Statistics 259-60 or the equivalent. Evening.
- †265-66 *Multivariate Analysis* (2-2) Morrow  
 Tests of significance, generalized variance and covariance, tests of independence, canonical and vector correlations, multivariate normal distribution, generalized Student's ratio, problems of estimation, applications to factor analysis. 1947-48 and alternate years.
- †267-68 *Characteristic Functions* (2-2) Kullback  
 Fourier integrals, set functions, inversion formulas, limit theorems, applications to the distribution problem in statistics. (Offered in 1948-49.)
- †269-70 *Sequential Testing* (1-1) Morrow  
 Efficiency of sequential tests, sequential probability ratio test, expected number of observations necessary for a decision, truncated sequential analysis, sequential tests of single and composite hypotheses. Evening.
- 295-96 *Current Literature* (2-2) The Staff  
 Admission by permission of the instructor. Time to be arranged.
- 297-98 *Reading and Research* (3-3) The Staff  
 Admission by permission of the instructor. Time to be arranged.
- 299-300 *Thesis* (3-3) The Staff  
 Time to be arranged.



## SURGERY

Brian Brewer Blades, A.B., M.D., *Professor of Surgery, Executive Officer*

Daniel LeRay Borden, A.M., M.D., *Clinical Professor of Surgery*

Paul Stirling Putzki, M.D., *Clinical Professor of Surgery*

Arch Lockhart Riddick, B.S., M.D., *Clinical Professor of Surgery*

William Berry Marbury, M.D., *Clinical Professor of Surgery*

Custis Lee Hall, M.D., *Clinical Professor of Surgery*

Donald Harrison Stubbs, A.M., M.D., *Clinical Professor of Anesthesiology*

Lloyd H. Mousel, M.S., M.D., *Clinical Professor of Anesthesiology*

William Russell Moses, M.D., *Adjunct Clinical Professor of Surgery*

Vincent Michael Iovine, B.S., M.D., *Adjunct Clinical Professor of Surgery*

Wallace Harry Graham, B.S., M.D., *Professorial Lecturer in Surgery*

John Hugh Lyons, M.S., M.D., *Associate Clinical Professor of Surgery*

Herbert Hermann Schoenfeld, M.D., *Associate Clinical Professor of Surgery*

William Warren Sager, M.S., M.D., *Associate Clinical Professor of Surgery*

Benjamin Franklin Dean, Jr., M.S., M.D., *Assistant Clinical Professor of Surgery*

Alec Horwitz, M.S., M.D., *Assistant Clinical Professor of Surgery*

Joseph Kreiselman, M.S., *Assistant Clinical Professor of Anesthesiology*

William Stanley McCune, A.B., M.D., *Assistant Clinical Professor of Surgery*

Cline N. Chipman, M.S., *Associate in Anesthesiology*

Richard Knight Thompson, D.D.S., *Associate in Dental Surgery*

Julius Salem Neviaser, A.B., M.D., *Associate in Surgery*

William Ross Morris, M.D., *Associate in Surgery*

Philip Pelland, M.D., *Associate in Surgery*

Harold Walter Krogh, D.D.S., *Associate in Dental Surgery*

Jacob Joseph Weinstein, B.S., Phar.G., M.D., *Associate in Surgery*

William Carey Meloy, M.D., M.S. in Med., *Associate in Surgery*

Jerome Blaine Harrell, M.D., *Associate in Surgery*

Edward Alexander Cafritz, M.D., *Clinical Instructor in Surgery*

Hazen Eugene Cole, B.S., M.D., *Clinical Instructor in Surgery*

Crenshaw Douglas Briggs, B.S., M.D., *Clinical Instructor in Surgery*

William Wiley Chase, A.B., M.D., *Clinical Instructor in Surgery*

Arthur James Mourot, B.S., M.D., *Clinical Instructor in Surgery*

Joseph Francis Conlon, D.D.S., *Clinical Instructor in Dental Surgery*

Otto Anderson Engh, A.B., M.D., *Clinical Instructor in Surgery*  
 Duane Case Richtmeyer, A.B., M.D., *Clinical Instructor in Surgery*  
 Richard Lee Jackson, M.D., *Clinical Instructor in Surgery*  
 Leon Gerber, M.D., *Clinical Instructor in Surgery*  
 Walter Henry Gerwig, Jr., M.D., *Clinical Instructor in Surgery*  
 Leonard Theodore Peterson, A.B., B.S., M.D., *Clinical Instructor in Surgery*

279-80 *General Surgery*

Dean, Harrell

Course of lectures and recitations covering surgical diseases of the neck and chest, herniae, amputations, and pre- and post-operative treatment. One hour a week for twenty-eight weeks.

283 *Principles of Surgery*

The Staff

A clinical and laboratory course covering the fundamentals of surgery, including studies in inflammation, wound healing, etc. One hour laboratory and one hour in the clinics.

371-72 *General Surgery*

Putzki, Riddick

Course of lectures and recitations covering surgery as applied to the neck, thorax, gastro-intestinal tract, and the bones and skeletal muscles. One hour a week.

373-74 *Ward Walks*

The Staff

Well-organized group ward-rounds are made with the visiting physicians and their respective staffs in the course of their usual rounds. Gallinger and Emergency hospitals.

375-76 *Surgical Clinic*

The Staff

Clinical teaching and demonstrations on the care of the various surgical diseases, with special emphasis on the pre- and post-operative management. Gallinger Hospital.

379-80 *Surgical Staff Conference*

Blades

Gallinger Hospital. One hour a week.

381-82 *Clinical Clerkship*

The Staff

The student is assigned and required to work up thoroughly the cases for diagnosis and treatment. Gallinger Hospital.

478 *Orthopedics*

Hall

Etiology, pathology, symptomatology, and treatment of congenital and acquired diseases of the bones and joints, and the clinical instruction in treatment and in the use of appliances for the correction of deformities. One hour a week.

481 *General Surgery*

The Staff

One hour a week.

483-84 *Dispensary Clinic*

The Staff

Dispensary instruction in the principles and practice of surgery. Instruction of small groups is given in general surgery and the specialties, including anesthesia, neurosurgery, orthopedics, proctology, and oral surgery. University and Emergency hospitals.

- 485-86 *Special Problems in Surgery* Riddick, Dean  
General surgical diagnosis, with special emphasis on the diagnosis and differential diagnosis of surgical diseases and post-operative complications. One hour a week.
- 488 *Surgical Clinic* The Staff  
Demonstration to the entire class of the various surgical diseases. One hour a week.
- 489 *Surgical Anatomy* Horwitz  
One hour a week.



## UROLOGY

Frederick A. Reuter, M.D., *Professor of Urology, Executive Officer*  
Thomas Carlton Thompson, B.S., M.D., *Clinical Professor of Urology*  
Gilbert Ottenberg, A.M., M.D., *Associate in Urology*  
William Dabney Jarman, B.S., M.D., *Clinical Instructor in Urology*

### 491-92 *Urology*

Reuter

Lectures covering the entire field of urology, including diagnosis, treatment, and morbid pathology. One hour a week.

### 493-94 *Clinics*

The Staff

Clinical teaching and demonstrations on the care of urological cases with special emphasis on the pre- and post-operative management. Operative clinics and clinical teaching. Gallinger Hospital.

### 495-96 *Clinics*

Reuter and Staff

Clinical demonstrations and teaching in the dispensary, with special attention given to diagnostic procedures. Emergency and University hospitals. One part of each section daily.

## ZOOLOGY\*

Donnell Brooks Young, Ph.D., *Professor of Zoology*  
 Ira Bowers Hansen, Ph.D., *Professor of Zoology, Executive Officer*  
 Edith Elizabeth Mortensen, Ph.D., *Assistant Professor of Zoology*  
 Kenneth Caspar Kates, Ph.D., *Lecturer in Zoology*

*The major.*—Prerequisite: Zoology 1-2. The student must at the end of his senior year exhibit a correlated knowledge of the following fields: (1) classification, structure, and ecological relations of animals, both invertebrate and vertebrate; (2) embryological development and life histories of important animal types; (3) general principles of physiology, heredity, and evolution; (4) the development of biological principles, hypotheses, and theories as revealed in the study of the history of zoology.

The student will obtain this knowledge in part by taking courses offered in these fields and in part by individual study under the direction of his adviser. For further details, see the pamphlet on this subject or consult the adviser.

Premedical students are required to take Zoology 1-2.

### FIRST GROUP

#### 1-2 *Introduction to Zoology* (4-4) Young, Mortensen

An introduction to the study of the structure, functions, and relation of animals, and of the fundamental biological principles involved. Material fee, \$4.50 a term. Lecture (2 hours); laboratory (4 hours)—morning and evening sections.

#### †5-6 *Field Zoology* (3-3) Mortensen

Summer term 1947 and alternate summers. Material fee, \$2.50.

### SECOND GROUP

#### 101-2 *Invertebrate Zoology* (3-3) Mortensen

A systematic study of invertebrate forms, including the study of morphology, classification, life histories, and phylogenetic relationships. Occasional field trips. Prerequisite: Zoology 1-2 or Biology 1-2. Material fee, \$4.50 a term. Lecture (1 hour); laboratory (4 hours). 1946-47 and alternate years—evening. 1947-48 and alternate years—afternoon.

#### 134 *Ornithology* (3)

The birds of eastern North America. Material fee, \$4.50. Time to be arranged. (Not offered in 1946-47.)

#### 137 *Histology* (3)

Young

An introduction to the microscopical anatomy of normal tissues and organs. Prerequisite: Zoology 1-2. Material fee, \$6. 1946-47 and alternate years—afternoon. 1947-48 and alternate years—evening.

\* See also the departments of Biology and Botany, pages 157-58 and 159-60.

- 141-42 *Comparative Vertebrate Anatomy* (3-3) Hansen  
Lectures on the organ systems of the vertebrates; laboratory dissections of types. Prerequisite: Zoology 2. Material fee, \$6 a term. Lecture (1 hour); laboratory (2 hours)—afternoon and evening sections.  
Summer term 1946.
- 144 *Introduction to Vertebrate Embryology* (3) Hansen  
The origin and early development of the individual and the formation of organ systems. Emphasis is placed on the frog, chick, and pig, with reference to the human embryo. Prerequisite: Zoology 2, and 141 or 142. Material fee, \$6. Lecture (1 hour); laboratory (2 hours)—afternoon.  
Zoology 144x—same as Zoology 144, but offered fall term. Evening.  
Summer term 1946.
- 147-48 *Experimental Morphology* (3-3) Hansen  
Lectures and class reports on experimental morphology. Prerequisite: Zoology 141-42 or the equivalent. 1946-47 and alternate years, evening.
- 151 *Protozoa* (3) Mortensen  
An introduction to the protozoa: classification, life histories, and physiology, with special emphasis on free-living types. Material fee, \$4.50. 1947-48 and alternate years. Lecture (1 hour), laboratory (4 hours)—evening.
- 156 *Parasitology* (3) Kates  
An introduction to the study of animal parasitology, with a survey of parasitic types from protozoa through arthropods. Prerequisite: Zoology 1-2 or the equivalent. Material fee, \$6. Evening.
- 171-72 *Special Problems* (3-3) The Staff  
Written approval of the instructor is required. Time to be arranged. Material fee, \$6 a term.
- 199-200 *Proseminar* (3-3) The Staff  
A course designed to correlate and supplement the work of zoology majors. Time to be arranged.
- 203-4 *Seminar in Invertebrate Zoology* (3-3) Mortensen  
Evening.
- 251-52 *Seminar in Vertebrate Zoology* (3-3) Hansen  
Time to be arranged.
- 253-54 *Research* The Staff  
Investigation of special problems. Time and credits to be arranged. Summer term 1946.
- 299-300 *Thesis* (3-3) The Staff  
Summer term 1946.



UNIVERSITY ORGANIZATIONS



## ALUMNI AND ALLIED ASSOCIATIONS

### THE GENERAL ALUMNI ASSOCIATION

The objects of this Association are to unite the graduates in closer sympathy and to promote the general welfare of the University. The following persons are eligible for *active* membership: graduates of any college, school, or division of the University; holders of honorary degrees from the University; and members of the Board of Trustees and of the Faculty of the University. Any person who has matriculated, who has been in regular attendance for one year, and who has left the University in good standing, is eligible for *associate* membership.

The office of the Executive Secretary of the Association is located on the first floor of Columbian House of the University. Alumni are urged to keep the Secretary informed of changes of address or occupation and to supply information with regard to their fellow alumni.

1946

*President.*—Chester W. Holmes, Ed.D. 1936 (B.S. 1916, Ed.M. 1924, Harvard University); Franklin Administration Building, Washington, D. C.

#### *Vice Presidents:*

*Columbian College.*—Bolon Bailey Turner, A.B. and LL.B. 1922, LL.M. 1924; 3900 Cathedral Avenue, Washington, D. C.

*Graduate Council.*—Mary Louise Robbins, A.M. 1940, Ph.D. 1944 (A.B. 1934, American University); 4913 Chevy Chase Boulevard, Chevy Chase, Md.

*School of Medicine.*—Fred A. J. Geier, M.D. 1925; 4948 Lowell Street, Washington, D. C.

*Law School.*—C. Oscar Berry, LL.B. 1932, A.B. 1933; 1100 H Street, Washington, D. C.

*School of Engineering.*—William C. Thom, B.S. in C.E. 1904, C.E. 1905; 1346 Hemlock Street, Washington, D. C.

*School of Pharmacy.*—Irving A. Tennyson, Phar.D. 1913; 2816 38th Street, Washington, D. C.

*School of Education.*—Lucile M. Herrick, A.M. 1938, Ed.D. 1942; 4115 Wisconsin Avenue, Washington, D. C.

*School of Government.*—Aaron A. Layne, A.B. in Govt. 1943, LL.B. 1945; 16 Blackistone Road, Washington, D. C.

*Dental School.*—William M. Sweet, D.D.S. 1918; 1835 I Street, Washington, D. C.



*Treasurer.*—Anna M. Bischoff, A.B. 1928; 2025 I Street, Washington, D. C.

*Executive Secretary.*—Lester Allan Smith, A.B. in L.S. 1932, A.M. in L.S. 1935; 1825 Ontario Place, Washington, D. C.

*Executive Committee:*

Charles R. Allen, Ex-1920; Washington Loan and Trust Building, Washington, D. C.

Jessie Fant Evans (Mrs. Joshua Evans, Jr.), A.B. and T.D. (w. d.) 1913, Ed.D. 1932; 3405 Lowell Street, Washington, D. C.

Robert H. Harmon, M.D. 1929 (A.B. 1915, Millsaps College); 1150 Connecticut Avenue, Washington, D. C.

Joseph H. Roe, Ph.D. 1923 (A.B. 1916, Roanoke College; A.M. 1917, Princeton University); 1352 Jefferson Street, Washington, D. C.

Frank H. Weitzel, A.B. 1931, LL.B. 1935; 2914 Tennyson Street, Washington, D. C.

THE GEORGE WASHINGTON UNIVERSITY MEDICAL SOCIETY

The George Washington University Medical Society, the organization of graduates of the School of Medicine, was established in 1905 and since 1926 has been affiliated with the General Alumni Association. The objects of the Society, as stated in the constitution, are "The promotion of the science and art of medicine and the welfare of the School of Medicine".

1946-47

*President.*—J. Burton Glenn, M.D. 1921; 2015 Q Street, Washington, D. C.

*President-Elect.*—Clyde P. Reeves, M.D. 1933; 1028 Connecticut Avenue, Washington, D. C.

*First Vice President.*—James I. Boyd, A.B. 1923, M.D. 1926, M.S. 1927; Upper Marlboro, Md.

*Second Vice President.*—Dorothy S. Jaeger, M.D. 1939; 700 East Capital Street, Washington, D. C.

*Secretary-Treasurer.*—Oscar B. Hunter, M.D. 1912, A.B. 1916, A.M. 1917; 1835 I Street, Washington, D. C.

*Council:*

William Earl Clark, M.D. 1904; 5220 Partridge Lane, Washington, D. C.

William M. Ballinger, A.B. 1921, M.D. 1924; 4923 Hillbrook Lane, Washington, D. C.

Fred A. J. Geier, M.D. 1925; 4948 Lowell Street, Washington, D. C.

Howard F. Kane, M.D. 1912 (A.B. 1909, Bowdoin College); 1835 I Street, Washington, D. C.

Dr. Robert H. Harmon, M.D. 1929 (A.B. 1915, Millsaps College); 1150 Connecticut Avenue, Washington, D.C.

(Officers of the Society are ex officio members of the Council.)

#### THE GEORGE WASHINGTON LAW ASSOCIATION

The George Washington Law Association, the organization of graduates of the Law School, was founded in 1912 and has been affiliated with the General Alumni Association since 1926. Its purposes as stated in the constitution are to promote high standards of legal education, to keep the alumni of the Law School in closer touch with one another and especially with members of their own classes, to gather and publish at intervals information as to the whereabouts and activities of these alumni, and to further the interests of the Law School.

1945-46

*President*—Charles R. Allen, Ex-1920; Washington Loan and Trust Building, Washington, D. C.

*First Vice President*.—Justin L. Edgerton, A.B. 1929, LL.B. 1931; 2014 Ross Road, Silver Spring, Md.

*Second Vice President*.—Charles E. Smoot, A.B. 1933, LL.B. 1935; 1835 Belmont Road, Washington, D. C.

*Third Vice President*.—George E. Monk, A.B. 1928, LL.B. 1930, LL.M. 1934; Colorado Building, Washington, D. C.

*Secretary-Treasurer*.—Frank H. Weitzel, A.B. 1931, LL.B. 1935; 2914 Tennyson Street, Washington, D. C.

#### *Executive Committee:*

C. Oscar Berry, LL.B. 1932, A.B. 1933; 1100 H Street, Washington, D. C.

Mary M. Connelly, LL.B. 1922; 1830 17th Street, Washington, D. C.

John W. Jackson, LL.B. 1932; Woodward Building, Washington, D. C.

Oliver E. Pagan, A.B. 1934, LL.B. 1937; Shoreham Building, Washington, D. C.

John W. Townsend, LL.B. 1920, LL.M. 1921; 1366 National Press Building, Washington, D. C.

#### THE LIBRARY SCIENCE ALUMNI ASSOCIATION

The Library Science Alumni Association was organized in 1932 by graduates of the Division of Library Science and became an affiliate of the General Alumni Association in 1935. It was established to foster

a closer relationship between the Faculty and graduates and to further the interests of the Division of Library Science and of the University as a whole.

1945-46

*President.*—

*Vice President.*—A. Marguerite Matthews, A.B. 1937, A.B. in L.S. 1939; 9214 Midwood Road, Silver Spring, Md.

*Secretary.*—Virginia C. Whitney, A.B. in L.S. 1930; 3338 Military Road, Washington, D. C.

*Treasurer.*—Martha R. Schmidt, Ex-1938 (A.B. in Ed. 1930, A.B. in L.S. 1937, University of Michigan); 35 Bryant Street, Washington, D. C.

#### THE ENGINEER ALUMNI ASSOCIATION OF THE GEORGE WASHINGTON UNIVERSITY

The Engineer Alumni Association was organized in 1936 and has been affiliated with the General Alumni Association since that time. Its objects are to unite the graduates and Faculty of the School of Engineering in closer fellowship, to promote the general welfare of the School of Engineering and of the University at large, to foster activities of the engineering organizations recognized by the University, and to advance the profession of engineering in general.

1945-46

*President.*—William C. Thom, B.S. in C.E. 1904, C.E. 1905; 1346 Hemlock Street, Washington, D. C.

*Vice President.*—Henry W. Herzog, B.S. in C.E. 1930; 22 Duval Drive, Westmoreland Hills, Md.

*Recording Secretary.*—Joseph E. Gray, B.S. in C.E. 1927, C.E. 1937; 4607 Brandywine Street, Washington, D. C.

*Corresponding Secretary.*—Charles J. Michelson, B.S. in M.E. 1939; 4037 7th Street, N.E., Washington, D. C.

#### *Executive Committee:*

J. Meigs Brearley, B.S. in M.E. 1931, LL.B. 1936; 1810 Shepherd Street, Washington, D. C.

Arthur R. Eno, B.S. in Eng. 1933; 3230 Wheeler Road, S.E., Washington, D. C.

Otis L. Turner, B.S. in M.E. 1932; West Falls Church, Va.

#### THE GEORGE WASHINGTON UNIVERSITY NURSES ASSOCIATION

The George Washington University Nurses Association was organized in 1914. In 1936 this organization was made an integral part of



the General Alumni Association, and graduates of the School of Nursing were accorded associate membership. The objects of the Association are to hold in unison the graduates of the George Washington University Hospital School for Nurses, to care for its sick members, and to promote the advance of nursing in the interest of the George Washington University Hospital.

1945-46

*President.*—Louva Neff Baker, N.Cert. 1919; 1361 Iris Street, Washington, D. C.

*Vice President.*—Pauline Tarpley, N.Cert. 1931; 1228 I Street, Washington, D. C.

*Secretary.*—Flora S. Schroebel, N.Dip. 1928; 2000 16th Street, Washington, D. C.

*Treasurer.*—Mrs. Claudine Thomas, N.Cert. 1927; 1714 Adams Street, Arlington, Va.

#### REGIONAL ALUMNI CLUBS

1945-46

##### THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF ARKANSAS

*President.*—

*Vice President.*—Walter L. Brown, LL.B. 1920; Courthouse, El Dorado, Ark.

*Secretary-Treasurer.*—H. Howard Cockrill, LL.B. 1933 (B.S. 1931, University of Virginia); 825 Pyramid Building, Little Rock, Ark.

##### THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF BALTIMORE

*President.*—L. Preble Marmion, A.B. 1927; 528 Nottingham Road, Ten Hills, Baltimore, Md.

*Secretary.*—Marie O'Dea, A.B. and M.S. in Chem. 1923; 230 South Monastery Avenue, Baltimore, Md.

*Treasurer.*—Archibald L. Russell, A.B. 1928; Windsor Court Apartments, Baltimore, Md.

##### Scholarship Committee:

Gladys T. Hopkins, A.B. and B.Dip. in Ed. 1922 (A.M. 1931, Columbia University); 2936 McElderry Street, Baltimore, Md.

Charles Silver, LL.B. 1916 (B.Chem. 1911, Cornell University; M.P.L. 1917, Georgetown University); 821 Calvert Building, Baltimore, Md.

##### THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF CHICAGO

*President.*—Samuel W. Kipnis, LL.B. 1926; 1414 Monadnock Building, 53 West Jackson Boulevard, Chicago, Ill.

*Vice President.*—Louis A. Bisson, LL.B. 1915, LL.M. 1916 (M.P.L. 1916, Georgetown University); 3032 Park Place, Evanston, Ill.  
*Secretary.*—Ruth H. Manasse (Mrs. DeWitt J. Manasse), LL.B. 1924; 111 West Washington Street, Chicago, Ill.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF CINCINNATI

*President.*—

*Secretary.*—Charles N. Moore, M.S. 1905, Sc.D. 1932 (A.B. 1903, University of Cincinnati; Ph.D. 1908, Harvard University); University of Cincinnati, Cincinnati, Ohio

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF CLEVELAND

*President.*—James T. Hoffman, LL.B. 1931 (B.S. in E.E. 1926, University of Pittsburgh); 20924 Erie Road, Rocky River, Ohio.

*Vice President.*—Ira David Lucal, LL.B. 1922; 1055 Leader Building, Cleveland, Ohio

*Secretary-Treasurer.*—Lucille M. Wunderlich, LL.B. 1925; 1001 Huron Road, Cleveland, Ohio

*Executive Committee:*

Matthew S. Farmer, LL.B. 1911; 602 Engineers Building, Cleveland, Ohio

Paca Oberlin, LL.B. 1903, LL.M. 1904, M.Dip. 1905, D.C.L. 1911 (LL.D. 1927, Washington College of Law); 3145 Berkshire Rd., Cleveland Heights, Ohio

George D. Bonebrake, A.B. 1924, LL.B. 1926; 3652 Sutherland Rd., Cleveland, Ohio

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF DALLAS

*President.*—Michael P. McKool, A.B. 1942; 2719 Denley Drive, Dallas, Texas

*Secretary-Treasurer.*—Earl E. Miller, LL.B. 1923; 3835 Opal Avenue, Dallas, Texas

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF DENVER

*President.*—

*Secretary-Treasurer.*—Ronald A. Silver, A.B. 1925; Box 960, Denver, Colo.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF DETROIT

*President.*—Franklin C. Knock, LL.B. 1922; 9th Floor, David Statt Building, Detroit, Mich.

*Secretary-Treasurer.*—Louis M. Hopping, A.B. 1924, LL.B. 1927; 11996 Indiana Avenue, Detroit, Mich

*Corresponding Secretary.*—Laurette McKendree, A.B. 1921; 246 Madison Street, Detroit, Mich.

*Publicity Agent.*—Karl B. Lutz, LL.B. 1924, M.P.L. 1925 (A.B. 1920, Bethany College, West Virginia); 680 Rivenak, Birmingham, Mich.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF  
KANSAS CITY

*President.*—Edward L. Scheufler, A.B. 1922, LL.B. 1924; 1503 Commerce Building, Kansas City, Mo.

*Vice President.*—Joseph A. Horigan, Phar.D. 1885, M.D. 1888; 5 East 54th Terrace, Kansas City, Mo.

*Treasurer.*—Albert F. Hillix, LL.B. 1924 (A.B. 1920, University of Missouri); 1007 Bryant Building, Kansas City, Mo.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF  
LOS ANGELES

*President.*—Charles R. Witt, D.D.S. 1919; 1508 Georgina Avenue, Santa Monica, Calif.

*Secretary-Treasurer.*—Ida G. Williams, LL.B. 1925; 1264 S. Plymouth Boulevard, Los Angeles, Calif.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF  
MILWAUKEE

*President.*—

*Vice President.*—Morris L. Stern, LL.B. 1906, 1147 Empire Building, Milwaukee, Wis.

*Secretary.*—Arnold C. Otto, A.B. 1911, LL.B. 1913 (A.B. 1911, Lawrence College); 740 North Plankenton Avenue, Milwaukee, Wis.

*Treasurer.*—William C. Lyon, LL.B. 1922, LL.M. 1923; 2636 North 66th Street, Wauwatosa, Wis.

*Director.*—Herbert W. Cornell, LL.B. 1919 (A.B. 1908, University of Colorado); Civil Service Commission, Milwaukee, Wis.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF NEBRASKA

*President.*—Olaf W. Osmes, LL.B. 1922; 400 Brandeis Theatre Building, Omaha, Nebr.

*Secretary-Treasurer.*—Howard Kennedy III, LL.B. 1935; First National Bank Building, Omaha, Nebr.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF  
NEW ENGLAND

*President.*—Richard J. Shea, A.B. 1924; 19 Emery Street, Methuen, Mass.



*Vice President.*—Maurice Palais, LL.B. 1912; 16 Court Street, Boston, Mass.

*Secretary-Treasurer.*—Eleanor V. Smith, A.B. in L.S. 1933; 49 Commonwealth Avenue, Boston, Mass.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF NEW YORK  
*President.*—A. Bruce Bielaski, LL.B. 1904; 85 John Street, New York, N. Y.

*Second Vice President.*—Nelson Littelle, A.B. 1920, LL.B. 1922; 22 East 40th Street, New York, N. Y.

*Vice President in Charge of Scholarship.*—George H. Baston, A.B. 1914; 60 Beaver Street, New York, N. Y.

*Secretary.*—Elsie B. Jansen, LL.B. 1930 (A.B. 1927, Wellesley College); 108 Washington Place, New York, N. Y.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF  
NORTHERN CALIFORNIA

*President.*—William S. Graham, M.P.L. 1908 (LL.B. 1906, LL.M. 1907, National University); 1095 Market Street, San Francisco, Calif.

*Secretary.*—William H. Atkinson, Ex-1926; 582 Market Street, San Francisco, Calif.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF  
OKLAHOMA CITY

*President.*—Angelo C. Scott, LL.B. and LL.M. 1885 (A.B. 1877, A.M. 1880, University of Kansas; Litt.D. 1916, College of Emporia); 310 Northwest 16th Street, Oklahoma City, Okla.

*Secretary.*—Harry B. Gilstrap II, A.B. 1925; 2008 Northwest 20th Street, Oklahoma City, Okla.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF  
PHILADELPHIA

*President.*—William E. Zimmerman, A.B. 1922; Lazy Creek Farm, Lansdale, Pa.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF THE  
PHILIPPINE ISLANDS

*President.*—Professor Lino J. Castillojo, A.B. and B. Dip. in Ed. 1919, A.M. 1920; Malacanan Palace, Manila, P. I.

*Secretary-Treasurer.*—Paterno C. Villanueva, A.B. 1925, A.M. 1927; University of the Philippines, Manila, P. I.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF  
PITTSBURGH

*President.*—William H. Parmelee, LL.B. 1918 (LL.M. and M.P.L. 1920, Georgetown University); 1621 Farmers Bank, Pittsburgh, Pa.  
*Secretary.*—Alice S. Andrews, A.B. 1923 (A.M. 1934, University of Pittsburgh); 603 Broad Street, Sewickley, Pa.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF  
PORTLAND

*President.*—Cleo Calvin Spears, Ex-1919-22; Oswego, Oreg.  
*Vice President and Secretary.*—Herbert W. White, LL.B. 1911; 614 Mead Building, Portland, Oreg.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF  
PUERTO RICO

*President.*—Ramón C. Ruiz-Nazario, M.D. 1918; San Juan, P. R.  
*Vice President.*—Rafael Rivera-Aulet, M.D. 1916; Hospital Avenue, Arecibo, P. R.  
*Secretary.*—Wilson P. Colberg, LL.M. 1927 (LL.B. 1926, University of Puerto Rico); 23 Nueva Street, Santurce, P. R.  
*Treasurer.*—Ricardo F. Fernández, M.D. 1931; P. O. Box 673, San Juan, P. R.  
*Permanent Delegate at Washington.*—Tomás Cajigas, M.D. 1918, B.S. in Med. 1919, M.S. 1921; 1801 I Street, Washington, D. C.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF RICHMOND

*President.*—John A. Rollings, M.D. 1912; 923 West Franklin Street, Suite 104, Richmond, Va.  
*Secretary.*—John K. Hyde, A.B. 1929; 1319 Nottoway Avenue, Richmond, Va.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF ST. LOUIS

*Secretary.*—Phineas H. Lamphere, LL.B. 1931 (B.S. in E.E. 1927, University of Idaho); 208 North Broadway, St. Louis, Mo.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF SAN  
FRANCISCO—SEE THE GEORGE WASHINGTON UNIVERSITY ALUMNI  
CLUB OF NORTHERN CALIFORNIA

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF SEATTLE

*President.*—Oscar A. Zabel, LL.B. 1926; Fourth & Pike Building, Seattle, Wash.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF TOLEDO  
*President.*—LaDow Johnston, LL.B. 1929 (A.B. 1925, University of Kansas); Suite 807, Second National Bank Building, Toledo, Ohio.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF TULSA  
*President.*—  
*Secretary.*—Lela Howard Wood (Mrs. Robert H. Wood), Ex-1910;  
 217 East 24th Street, Tulsa, Okla.

THE GEORGE WASHINGTON UNIVERSITY ALUMNI CLUB OF UTAH  
*President.*—  
*Vice President.*—John Jensen, LL.B. 1909 (A.B. 1906, University of Utah); 920 Continental Bank Building, Salt Lake City, Utah

#### THE GRADUATE ENDOWMENT FUND

The Graduate Endowment Fund was founded by the class of 1926 with the object of providing endowment to be used for the development of the University. Membership is limited to seniors and graduates who sign a pledge of \$100, payable annually in ten equal installments.

The pledge notes and funds are held in trust. When the principal reaches the sum of \$100,000, the Board of Administrators of the Fund may pay to the University such sums as it may vote for erection of buildings, acquisition of sites, maintenance, and purchase of equipment. At no time may money be drawn so as to leave a balance of less than \$50,000 on deposit.

On request, the Alumni Secretary of the University will furnish pledge blanks to alumni.

#### BOARD OF ADMINISTRATORS \*

*Chairman.*—Ludwig Caminita, Jr., B.S. 1934, A.M. 1937; 501 North Lincoln Street, Arlington, Va.

*Vice Chairman.*—Margaret Maize Boaz (Mrs. J. Noble Boaz), A.B. 1928; 7212 Aberdeen Road, Bethesda, Md.

#### *Members:*

Kenneth C. Beede, A.B. 1927; 200 Cleave Drive, Falls Church, Va.  
 Wilhelmina Gude Hussey (Mrs. Hugh Hussey), A.B. in Ed. 1931;  
 3354 Stuyvesant Place, Washington, D. C.

Arthur F. Johnson, M.E. 1915 (Ph.D. 1938, University of Michigan);  
 1208 Oakcrest Road, Arlington, Va.

*Executive Secretary.*—Lester Allan Smith, A.B. in L.S. 1932, A.M. in L.S. 1935; The University.

\* Elected by the subscribers.



# THE COLUMBIAN WOMEN

The objects of this organization are (1) the promotion of acquaintance-ship among its members; (2) the advancement of women by the founding of scholarships in the various departments of the University, and by every other possible means; and (3) the promotion of the interests of the University in every way.

## MEMBERSHIP

1. The following persons shall be eligible for active membership:  
(a) any woman who for one year has been a regularly registered student in The George Washington University, provided that she shall have received credit for thirty hours of work; (b) any woman member of the Faculties, Council, or Board of Trustees, any woman on the administrative staff; the wife or recognized head of the household of any member of the Faculties, Council, Board of Trustees, or of the administrative staff; (c) any woman recipient of an honorary degree from the University.
2. The following persons shall be eligible for associate membership:  
(a) any graduate woman student upon her registration in the University; (b) the wife of any graduate student upon the registration of the latter in the University.

Associate members shall have all privileges and obligations of membership except those of voting and holding office.

1945-46

- President.*—Alice H. Drake, Ex-1918; 2400 16th Street, Washington, D. C.
- First Vice President.*—Juanita May Winn (Mrs. Henry D. Winn), A.B. 1933, A.M. 1936; 706 E Street, S.E., Washington, D. C.
- Second Vice President.*—Iva Lou Jones, A.M. 1940 (B.S. 1934, Madison, College); 3200 16th Street, Washington, D. C.
- Corresponding Secretary.*—Elizabeth F. Wrenn (Mrs. Samuel N. Wrenn) (A.B. 1927, Pennsylvania State College); 408 N. Thomas Street, Arlington, Va.
- Assistant Corresponding Secretary.*—Pauline L. Beall (Mrs. John R. Beall), A.B. 1931; 2526 11th Street, Washington, D. C.
- Recording Secretary.*—Margaret H. Streett, A.B. 1929, A.M. 1941; 2112 F Street, Washington, D. C.
- Treasurer.*—Mrs. Margaret Gaddis Dutton, A.B. 1920, A.M. 1930; 1017 East Capitol Street, Washington, D. C.
- Assistant Treasurer.*—Alida B. Bassler (Mrs. Ray S. Bassler), A.B. 1938; The Ontario Apartments.
- Historian.*—Katherine Scrivener, A.B. and B.Dip. in Ed. 1928; 6912 6th Street, Washington, D. C.

THE WOMEN'S BOARD OF THE GEORGE WASHINGTON  
UNIVERSITY HOSPITAL

The object of this organization is to aid in every way the interests and advancement of The George Washington University Hospital. Inquiries regarding membership should be addressed to the Corresponding Secretary, The George Washington University, Washington 6, D. C.

1946-47

*President.*—Mrs. Cloyd Heck Marvin  
*Vice President.*—Mrs. G. Louis Weller  
*Vice President.*—Mrs. Gilbert Grosvenor  
*Vice President.*—Mrs. Walter A. Bloedorn  
*Recording Secretary.*—Mrs. Arthur Grahame  
*Corresponding Secretary.*—Miss Helen P. Dunn  
*Assistant Corresponding Secretary.*—Mrs. W. Y. Handy  
*Treasurer.*—Mrs. Harold W. Krogh  
*Assistant Treasurer.*—Mrs. Barton W. Richwine

## HONOR SOCIETIES

*Phi Beta Kappa*.—A national honor society recognizing "outstanding intellectual capacity well employed" in the field of liberal arts and sciences. Senior and junior students who are candidates for the degree of Bachelor of Arts or Bachelor of Science in Columbian College (in exceptional cases, senior and junior students in other non-professional divisions of the University) and who have shown broad cultural interests, distinguished scholarly achievement, high character, general promise, and scholarly ideals may, to a number not exceeding 15 per cent of a class, be elected to membership by the Faculty members of the Alpha Chapter of the District of Columbia.

*Sigma Xi*.—A national scientific honor society, the purpose of which is to encourage original investigation in science pure and applied. Outstanding graduate students in the sciences are eligible for full membership, and undergraduates who have shown marked ability in research may be elected to associate membership.

*Order of the Coif*.—A national legal society, the purpose of which is to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship. Members are elected each year from the highest 10 per cent of the graduating class of the Law School.

*Sigma Tau*.—A national engineering fraternity, the purpose of which is to recognize scholarship and professional attainment.

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*Alpha Lambda Delta*.—A national fraternity established to encourage and reward high scholarship and attainment, membership in which is limited to those freshman women who attain a scholastic average of at least 3.50.

*Artus*.—A national economics society.

*Delphi*.—An intersorority society.

*Delta Sigma Rho*.—A national forensic honor society.

*Gate and Key*.—An interfraternity society.

*Iota Sigma Pi*.—A national honorary chemical society for women.

*Mortar Board*.—A national honorary society for senior college women, stressing leadership, scholarship, and service.

*Omicron Delta Kappa*.—A national fraternity emphasizing leadership in extracurricular activities.

*Phi Delta Kappa*.—A national honorary fraternity for men in the field of education.



*Phi Eta Sigma*.—A national fraternity, established to encourage and reward high scholarship and attainment, membership in which is limited to those freshman men who attain a scholastic average of at least 3.50.

*Pi Gamma Mu*.—A national social-science society.

*Pi Lambda Theta*.—A national honorary fraternity for women in the field of education.

*Sigma Gamma Epsilon*.—A national honorary geology fraternity.

*Sigma Pi Sigma*.—A national honorary physics fraternity.

*Sigma Rho*.—Honorary research society in physiology.

*Smith-Reed-Russell Society*.—A scholastic society in the School of Medicine. Students of the third and fourth years who maintain a scholastic average of 86 per cent are eligible for associate membership.

*William Beaumont Medical Society*.—A society founded with the object of encouraging and stimulating medical students in work of individual investigation.

## STUDENT ORGANIZATIONS

### PROFESSIONAL FRATERNITIES

Alpha Chi Sigma (chemistry), Alpha Epsilon Iota (medicine), Alpha Kappa Kappa (medicine), Alpha Kappa Psi (commerce and economics), Alpha Pi Epsilon (home economics), Chi Upsilon (geology), Delta Phi Epsilon (foreign service), Delta Theta Phi (law), Kappa Beta Pi (law), Mortar and Pestle (pharmacy), Nu Sigma Nu (medicine), Phi Alpha Delta (law), Phi Chi (medicine), Phi Delta Delta (law), Phi Delta Epsilon (medicine), Phi Delta Gamma (graduate), Phi Delta Phi (law), Phi Pi Epsilon (foreign service), Phi Sigma Rho (philosophy), Pi Delta Epsilon (journalism), Theta Tau (engineering).

### SOCIAL FRATERNITIES

Sigma Chi, Kappa Sigma, Kappa Alpha, Theta Delta Chi, Phi Sigma Kappa, Sigma Alpha Epsilon, Sigma Phi Epsilon, Phi Alpha, Sigma Nu, Acacia, Tau Kappa Epsilon, Pi Kappa Alpha.

### SOCIAL SORORITIES

Pi Beta Phi, Chi Omega, Sigma Kappa, Phi Mu, Alpha Delta Pi, Delta Zeta, Kappa Delta, Phi Sigma Sigma, Zeta Tau Alpha, Kappa Kappa Gamma, Delta Gamma.

### DEPARTMENTAL CLUBS

Aesculapian Society (pre-medical), Student Bar Association, American Society of Civil Engineers, American Institute of Electrical Engineers, The Engineering Council, Le Cercle Francais Universitaire, El Club Español, Home Economics Club, Charles Clinton Swisher History Club, American Society of Mechanical Engineers, National Collegiate Players, A. F. A. King Obstetrical Society, Psychology Club, Schoenfeld Verein, Lester F. Ward Sociological Society, Orchesis, Student Branch American Pharmaceutical Association, Tironians (secretarial), Hellenic Society.

### RELIGIOUS ORGANIZATIONS

Baptist Student Union, B'nai B'rith Hillel Foundation, Canterbury Club, Christian Science Organization, Luther Club, Newman Club, Wesley Club, Westminster Club.

### MUSICAL ORGANIZATIONS

Girls' Glee Club, Men's Glee Club, Symphony Club.

## STUDENT PUBLICATIONS

*The Cherry Tree* (the annual), *The University Hatchet* (weekly newspaper), *The George Washington Law Review*, *Mecheleciv* (Engineers' publication).

## OTHER ACTIVITIES

Big Sisters, Cogs, Colonial Campus Club, Cue and Curtain Club (dramatics), Interfraternity Council, International Students Society, Junior Panhellenic Council, Martha Washington Club, Masonic Club, Panhellenic Council, Student Council, Student Veterans of World War II, Women's Athletic Association, Women's Fencing Club.



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THE UNIVERSITY RECORD

SUMMER TERM 1945

FALL AND WINTER TERMS 1945-46



# DEGREES CONFERRED

## JUNIOR COLLEGE

### ASSOCIATE IN ARTS

MAY 30, 1945

Andrulis, Alphonse Michael	Mass.	Kershaw, John Aloysius	Pa.
Beland, Joseph Andrew	D.C.	Klock, Elinor Ramola	Wis.
Berg, Elmer Elaine	D.C.	Kloze, Ida Iris	Md.
Blake, Eunice Bath	D.C.	Kloze, Phyllis	D.C.
Bortow, K. Howard Hall	Md.	Kriempin, Mamie Augusta	D.C.
Booke, V. Jean Toba	Md.	Kroll, Louise Alberta	D.C.
Callahan, Mary Jane	Ohio	LeChoir, Marie Jennette	Tex.
Chowers, Pauline	D.C.	(With distinction)	
Clayton, Sybilla White	Mass.	Levin, Stanley William	D.C.
Collins, Ruth Mary	D.C.	Levinson, Treva Rose	Va.
Comer, Caroline Stewart	Va.	Loup, William Francis Edward II	D.C.
Comper, Mary Virginia	D.C.	Lord, Lois Carolyn	Md.
Compton, Bernard Robert	D.C.	(With distinction)	
Corno, Pedro Francisco, Jr.	Panama	Lucas, Mildred Foster	Va.
Davis, Dorothy	D.C.	Makela, Pasella Josephine	Mich.
Dedick, Betty Jean	Pa.	Marine, Jacqueline	N.J.
Derry, Alice Josephine	D.C.	Marsh, Nancy Bernice	D.C.
Deska, Leona	D.C.	Matther, Charles E. II	Pa.
Doddle, Donna Elizabeth	D.C.	McInteer, Sarah Madeline	N.Y.
Dunaway, Helen Elizabeth	Iowa	McIntyre, William Gordon	Mont.
Egan, Anna Virginia	N.J.	McNabb, Gertrude Elliott	D.C.
Eggenring, Dorothy Jean	Md.	Melzer, Allen Elias	Va.
(With distinction)		Miller, Antonine Geoffrion	D.C.
Evans, Betsy	D.C.	Miller, Evelyn Wells	D.C.
Evans, Elaine	Md.	Mitchell, Anne Hubbard	Va.
Farrar, Lydia Ruth	Ala.	Moscatello, Anthony Carmen	Pa.
Fertoe, Irla Henrietta	Pa.	Mosier, Mary Fortis	D.C.
Fillingim, Gwendolyn Rosalie	Nebr.	Newman, Lillian	Conn.
(With distinction)		Nockett, Rosamond Patricia	Mass.
Fisher, Eikel Mae	Mass.	Nowak, Leopoldina Antonie	D.C.
Foster, Elvora Harris	D.C.	Nye, Thetese Gloria	D.C.
Frederman, Miriam Isenman	Mass.	Oumano, Leo	N.Y.
Freeman, Murray	N.Y.	Palmer, Joan	N.Y.
Gallagher, Elizabeth Genevieve	Pa.	Peele, Wilfred	D.C.
Giles, Martha Lough	N.Y.	Powell, Diana Kearny	N.J.
Glick, William Sumner, Jr.	D.C.	Pradard, Jean Carter	Md.
Hall, Phyllis Anne	D.C.	Prang, Dorothy Phyllis	D.C.
Ham, William Albert	Va.	Prinard, Margaret Eleanor	D.C.
Hambraer, A. M. Anna	D.C.	Raphael, George	D.C.
Hendall, Ann Carole	Va.	Read, Jeanne Elinor	D.C.
Hendon, Sister Jane Frances	D.C.	Rees, Alfred	D.C.
Heller, Kathleen Johanna	D.C.	Roubell, Mera Velela Munn	D.C.
Hennam, Jeanne Louise	Ohio	Roberts, Natalie	D.C.
Hensley, Marjorie	D.C.	Rogers, Elizabeth Carson	N.J.
Hogan, Patricia Collins	D.C.	Ross, Daniel Michael	N.Y.
Holman, Elizabeth Jeanne	Va.	Robin, Louise	D.C.
Holzman, Joseph	D.C.	Sain, Anne Pauline	Pa.
Hopewell, Jacqueline Hannah	Va.	Sandlund, John Torsten	N.Y.
Hough, Mary Margaret	D.C.	Schoel, Clifton	N.J.
Hubert, Virginia Witherspoon	Md.	(With distinction)	
Hummer, Martha Jean	D.C.	Schwane, Zara Ernestine	D.C.
Ingram, Frances Baker	D.C.	Schwartz, Dorothy Louise	Ohio
Jackson, Margaret Earle	D.C.	Seagel, Mildred Beatrice	D.C.
Jacobs, Bryna Irene	D.C.	Servais, Raymond Alexis	Wa.
Jerman, Nellie Mae	D.C.	Shindle, Evelyn Ann	D.C.
(With distinction)	Mo.	Silliman, Nellie Esther	N.Y.
Judl, Sally Frances	D.C.	Smenager, Hildogard	D.C.
Kallman, Beatrice	D.C.	Smith, Phyllis Elaine	Mass.
Kassoff, Arthur Irving	N.Y.	Smith, Ruth Ellen	D.C.



Steadman, Helen Louise	Ind.	Turner, Caroline Embry	D.C.
Stein, Jacob	D.C.	Van Reed, Grace Ballard	Va.
Stellwagen, Barbara Pierson	D.C.	Warfield, Marion Dixon	D.C.
Stevenson, Alice Louise	Ind.	Watson, Ellen V.	D.C.
Sures, Ruth Ann	D.C.	Watson, Lillian Gertrude	D.C.
Swiller, Sydney	N.J.	Weisenburger, Faye Darleen	D.C.
Swing, Patricia Mary	D.C.	Wheatley, Edythe Joan	D.C.
Tarpley, Gloria Swann	D.C.	Wheeler, Helen Bouschelle	N.C.
Thackberry, Gloria Ruth	Va.	Wilkins, Katherine Gene	Va.
Travis, Dorothy Frances	Md.	Williams, Edith Louise	Va.
Troper, Betty Elise	D.C.	(With distinction)	
Trucks, Elizabeth McWane	Va.	Woolley, Marion Emma	D.C.

## OCTOBER 17, 1945

Allegri, Theodore Henry	D.C.	Kimball, Dorothy Rosemary	D.C.
Andersen, Martha Julio	Va.	Lee, Miriam Lubtow	N.Y.
Aptaker, Cecelia	Pa.	(With distinction)	
Baker, Marilyn Jeanne	Ill.	Leong-Way, Madeline Li	D.C.
Baranson, Stanley	N.Y.	(With distinction)	
Barnes, Frances LaVerna	Md.	Levin, Stanley William	D.C.
Bartlett, Marcia	D.C.	Lindahl, Charles Keith	Ill.
Brummer, Eleonora Dorfman	N.Y.	Litynski, Emily Ann	N.Y.
Burns, James Patrick, Jr.	D.C.	Maletz, Charlotte	N.Y.
Calomeris, William Basil	D.C.	Marossano, Moriel	N.Y.
Chang, Augusta Tai-Hao	D.C.	Massonieu, Suzanne	N.Y.
Chap, Gertrude Estelle	D.C.	Mezans, Basil John	N.J.
Clark, Belvia Elaine	Va.	Montgomery, Dorothy Mae	D.C.
Clark, Sidney B.	N.Y.	Muchnick, Sarah Belva	D.C.
Clements, Frances Brown	Ala.	Murphy, Eleanor Ruth	D.C.
Cock, Aria Mull	D.C.	Nolan, Catherine Anne	N.Y.
Davis, Sadye Jane	Pa.	Patermaster, Gene C.	Va.
Deskin, Elaine	D.C.	Phelps, Wallace Nathan	D.C.
Donnelly, Mary Elizabeth	D.C.	Plunkett, Malvin Blaine	Va.
Duwall, Allen J.	D.C.	Prather, Elbridge Crawford	Va.
Erickson, Eleanor Grace	D.C.	Ringwalt, Anne Una	Va.
Evans, Harold R.	Va.	Roberts, Janet Fairley	D.C.
Featherstonhaugh, Marcia Jane	Md.	Rosenberg, Phyllis A.	D.C.
Fisher, Marilouise	Pa.	Rosenblatt, Shirley Natalie	D.C.
Foreman, Daril Lois	Idaho	Rothbard, Eleanor	N.Y.
Friend, Norman Harold	D.C.	Schappin, Ida	D.C.
Genna, Joseph	N.Y.	Serzist, Theo Lorraine	Va.
(With distinction)		Seitrich, Helen T.	D.C.
Grant, Donald Henry III	N.Y.	Selinsky, James J.	Wis.
Hall, Blanche Ann	D.C.	Smith, Harold Jerome	D.C.
Harrison, Mary Louise	D.C.	Smyth, Elizabeth Dent	D.C.
Henry, Patrick Wallace	Mo.	Spindel, Sidney Simon	Md.
Hernandez, Raymonde Sophie	D.C.	Strickland, Lawrence Gordon	D.C.
Hovnanian, Mary A.	D.C.	Swinson, Mildred Evangeline	D.C.
Hudson, Margaret Christine	Va.	Visintainer, Anne Benedicta	Pa.
Hunt, Donley Frayne	Wis.	West, Eleanor T.	Mass.
Johnson, Augustus Clark	D.C.	White, Ruth	N.Y.
Kalter, Karl	D.C.	Wills, Ethel Jackson	La.
Kean, Ruth Gary	D.C.	Woodward, Edith Stephens	Kans.

## FEBRUARY 22, 1946

Abraham, Hommey Lorraine	Iowa	Garrett, Patricia Ann	D.C.
Agusewicz, Henry Anthony	Pa.	Gering, Joan	D.C.
Barr, Ann Franklin	Calif.	Gittan, Barbara Ann	Va.
Bennion, Harden Clark	Utah	Golden, James Lawrence	D.C.
Brown, Barbara Marion	Md.	Golob, Jeanette Malin	N.Y.
Brundage, Dean Edward	Va.	Gould, Louise Stewart	D.C.
Coburn, Harriette Hartnett	Md.	Grady, James Theron	Md.
Curry, Harriet Bradford	D.C.	Greene, Patricia Ross	Va.
Day, Jane	Md.	Grisby, Roberta	Va.
Deasy, John Paul	Ohio	Hall, Etta Juanita	D.C.
Del Vecchio, Marie	D.C.	Halpern, Gloria	D.C.
Drew, Jane Carolyn	D.C.	(With distinction)	
Freeman, Marian Virginia	Del.	Haynes, Martha Frances	Ky.
Friedman, Charlotte Pearl	D.C.	Holliman, Margaret Erskine	Va.

# Degrees Conferred

313

Juvenal, Suzanne  
Kahn, Leon  
(With distinction)  
Kayhoe, Donald Ellsworth  
Kessinger, James Bennett  
Kohler, Francis Leroy  
Kull, Raymond Christian  
Lathrop, Richard Poyneer  
Liska, Ellen Lydia  
May, William Preston  
McBride, Robert James, Jr.  
Mitchell, Marguerite Amy  
Moody, Elizabeth Carol  
Oliver, Maissie Elizabeth  
Peisner, Arthur A.

D.C. Petty, Bernard Leow  
Va. Pike, Sara Bernice  
Md. Reichwein, Terrence Joseph  
La. Rumsey, Jacqueline Wallace  
Pa. Sload, Philip Henry  
D.C. Stein, Harold Lawson  
Md. Summerlin, Virginia Vandergrift  
D.C. Summers, Anne Theresa  
Conn. Tolan, Alma-Jean  
D.C. Tolbert, Amelia Alpha  
Tompkins, Charmian Ettinger  
Maine Wertheim, David Seymour  
Va. Whiteman, Martha Thames  
Va. Yahner, Philip Anthony  
D.C. (With distinction)

D.C.  
Md.  
Pa.  
N.C.  
Va.  
D.C.  
D.C.  
Md.  
D.C.  
Tex.  
Va.  
N.Y.  
D.C.  
Pa.

## MAY 29, 1946

Applebaum, Zona Lee  
Asowitch, Gertrude  
Ayre, Agnes  
Baker, Elma Louise  
Bartelsky, Frances  
Bartlett, Thomas Joseph, Jr.  
Barrow, Sarah Jane  
Beacham, Joy Katherine  
Beck, Vera Audrey  
Becker, Florence Pearl  
Benzamin, Betty Ruth  
Berger, Sue  
Bianchi, Francesco M.  
(With distinction)  
Blair, Shirley Anne  
Blanch, Henrietta  
Branson, Margaret Elizabeth  
Brooks, Carol  
Brown, Maude Dimple  
Bray, Anne Norton  
Buckburg, Albert  
Caivert, Mary Mackubin  
Cannier, Margaret Ann  
Carson, Raymond Eugene  
Carow, Melbaet Madeline  
Casanova, Jean Ottilia  
Chaves, Mary  
Chevrolet, Evelyn Ruth  
Church, Jessica Peel  
Collins, Wilma Jean  
Cooper, Betty  
Crowell, Esther Hannah  
Cruiser, Donathea van Rensselaer  
Crystal, Frances Hale  
Davis, Evelyn Smalling  
Davison, Clarke  
(With distinction)  
Day, Luc  
Dean, Elizabeth Nan  
Dean, Mary Kendrick  
Dees, Lola Edwelle  
Depue, Margaret Van Norstrand  
Dodge, Janet Anne  
Duban, Nora  
Edge, Ruth Marianne  
Elliot, Mary Elizabeth  
Engler, Frances Ann  
Espinosa, Mildred Adelaide  
Fair, Robert James  
Farrall, Cynthia  
Ferrill, Grace C.  
Freese, Betty Jean  
Fensel, Aubrey Dodge  
Gibson, Gloria Gilda

D.C. Gunbel, Shirley  
D.C. (With distinction)  
D.C. Goldsborough, Camilla  
Ohio Griffiths, Mary Cecelia  
D.C. (With distinction)  
Pa. Guerra, Grace  
Md. Hammond, Georgina Louise  
D.C. Hanby, Barbara Louise  
D.C. Hanck, Nancy Rika  
D.C. Harpster, Lyndale Roberta  
D.C. Harrison, Halden Roberts  
N.Y. Haynes, Chester St. George  
Va. Helfron, Harold Stephan  
Hill, Donna Marie  
Hirakawa, Anna T.  
N.Y. Holley, Charlene  
D.C. Hosinski, Angela Marie  
D.C. Hoskinson, Lura Dean  
Ark. Houff, Janet Mildred  
Va. Howard, Hope Myrth  
D.C. Hutmark, Searle Lee  
D.C. Humphreys, Nancy Claire  
Va. Hyatt, Joan Rose  
Md. Isaacs, Claire Josephine  
D.C. Jefferson, Jennie Marguerite  
D.C. Johnson, Howard Hamilton, Jr.  
N.M. Kasbaum, Elymen P.  
D.C. Keener, Virginia  
D.C. Kileen, Katherine Francis  
D.C. Kitta, Susanna Burlingame  
D.C. Kleger, Nina Anne  
D.C. Klostermann, Wolfgang Ekart  
D.C. Labukas, Peter Paul  
N.J. Lamsdale, Mary Louise  
Va. Lasco, John, Jr.  
D.C. Leath, Marie Kauffman  
Md. Lee, Eugene Therese  
Md. Levenstein, Myrtle  
D.C. Levine, Daniel Bernard  
D.C. Levine, Irving Abraham  
Ala. Lobo, Oswaldo Castro  
D.C. Loomis, Gwendolyn Yvonne  
N.Y. Lubin, Donald  
N.Y. Markowitz, Irving  
Va. Martin, Rosa Irene  
D.C. Matera, Ralph Joseph  
D.C. McCann, Dorothy Patricia  
D.C. McClellan, LaVonne Hedeon  
D.C. McConnell, Harden  
(With distinction)  
R.I. McConnell, Mary Helen  
D.C. McLean, Charles Graham  
D.C. McLean, Norman Spencer  
D.C. McMullen, Marjorie Ann

D.C.  
Md.  
Va.  
D.C.  
N.J.  
Md.  
D.C.  
D.C.  
D.C.  
Ill.  
D.C.  
N.M.  
Fla.  
Ind.  
Ohio  
D.C.  
D.C.  
Miss.  
Md.  
Ga.  
N.Y.  
D.C.  
D.C.  
Okla.  
Va.  
D.C.  
D.C.  
Ohio  
Ark.  
Pa.  
D.C.  
Pa.  
Va.  
Md.  
Va.  
D.C.  
D.C.  
D.C.  
Brazil  
D.C.  
N.J.  
N.J.  
Va.  
D.C.  
D.C.  
Iowa  
D.C.  
D.C.  
N.C.  
Va.  
D.C.

Mears, Ann Elizabeth	Va.	Smith, Dorr Newell	Maine
Mesney, Marguerite Rustling	D.C.	(With distinction)	
Miller, Elaine Shirley	Va.	Speaker, June Marie	Va.
Minor, Sophia Crouch	Va.	Spearmen, Elaine Lenore	D.C.
Munster, Lorraine Junette	Va.	(With distinction)	
Neufeld, Arthur Irvin	D.C.	Squier, Beverly Jane	Mich.
Neumann, Maryaret Jane	D.C.	Stakeman, George Howard	Ind.
Norton, Helen Ryan	D.C.	Stedman, Richard Guy	D.C.
Norton, Shirley Ann	Md.	Steines, Marcella Louise	Mo.
(With distinction)		Stember, Selma	Pa.
Novinger, Mary Alice	D.C.	(With distinction)	
(With distinction)		Stern, Sylvia	Conn.
O'Neil, Clara Louise	D.C.	Stone, Rose Louise	W.Va.
O'Reilly, Margerie Helen	Md.	Strupp, Werner	D.C.
Osborn, Dolores Hazel	Md.	Thatcher, Joan Mary	Va.
Ossmond, Ellena Dayton	D.C.	Tibben, Elaine Lalonna	Va.
Perry, Jacqueline	D.C.	Trevellian, Ann Jefferson	Md.
Plowman, Dorothy Anne	D.C.	Trowbridge, Betty Lou	Md.
Reichard, Charlotte	D.C.	Tucker, Frank William	Conn.
Reuter, Ruth Maris	Pa.	Tzornes, Anne	D.C.
Roberts, Margaret Frances	D.C.	Ulasek, Henry Thomas	Ohio
Rogers, Rachel Caudwell	D.C.	Wadden, Edwina Pou	D.C.
Rohrbach, Phyllis Josephine	Pa.	Wiles, Robert Oliver	Md.
Rose, Margate Natalie	N.J.	Walker, Alac Elaine	Md.
Roseth, Leota Thompson	Mo.	Weinstein, Beatrice	D.C.
Saalfrenk, Joy Catherine	Md.	Weisskopf, Vera Jordan	D.C.
St. Clair, Mary Dorothy	Md.	Wels, Walter William	Pa.
Sanborn, Marjorie Jane	D.C.	Wherry, Marilyn	Va.
Santell, Madeline R.	Pa.	Wilson, Melissa Forsyth	Fla.
Schaeffer, Mary Ann	D.C.	Wolpoff, Millicent Louise	D.C.
Schneider, Stanley Warner	Va.	Yalom, Isador	D.C.
Shane, Margaret Brinkerhoff	D.C.		

## COLUMBIAN COLLEGE

## BACHELOR OF ARTS

MAY 30, 1945

Abrams, Phyllis Irma	D.C.	Harris, Nancy Field	D.C.
(With distinction)		Hoover, Mo Yean	D.C.
Albertson, Shirley Carter	Va.	Hopkins, George Jerome	W.Va.
Band, Philip Theodore	D.C.	Huddleston, James Edgar, Jr.	D.C.
Barker, Lorene Margaret	Nebr.	(With distinction)	
Barr, Katherine Patricia	Va.	Hughes, Mabelle Trinit	D.C.
Bartow, Elizabeth Anne	Md.	Hunter, Jean Evelyn	Conn.
Berman, Gertrude Sylvia	D.C.	Johnson, Helen Lukens	Va.
Berry, Mary Chapman	Ohio	Karle, Betty June	Md.
Black, Helen Jean	D.C.	(With distinction)	D.C.
Bonwit, Elaine Joseph	N.Y.	Kaslow, Clifford	Va.
Bruyninck, Doris Jeanne	D.C.	Keller, Samuel Mason	Md.
Burnette, Norene Frances	D.C.	Latimer, Mary Lane	Va.
Campbell, Janet Patricia	Calif.	Lock, Marion Geraldine	Ala.
Clark, William Douglas	D.C.	Lowder, Margaret Howard	N.I.
Cole, Elizabeth	D.C.	McGarry, Edward Clifford	D.C.
Dabney, Anne Elizabeth	D.C.	McNeese, Laura Butler	D.C.
(With distinction—special honors in English)		Montgomery, Emma Gray	D.C.
Dillon, Helen	D.C.	Murray, Robert Warren	D.C.
Duff, Marie Ulam	Pa.	Nalls, Virginia Ann	Va.
Fant, Jean Marr	Pa.	Nixon, Florence Guild	
Federmann, Patricia Holmes	Ind.	(With distinction)	D.C.
Fleming, Julia Bernice	Wash.	Norris, Edith Tipton	Ohio
Freseman, Virginia Custis	D.C.	Parrish, Evelyn May	Ohio
Gessford, Margery	Md.	Phillips, Virginia Scott	Va.
Graham, Elizabeth Ann	Va.	Poydam, Valborg Lee	D.C.
Grayson, Lorna	Va.	Price, George W.	N.M.
Griggs, Lorraine	D.C.	Parveen, Francis Elizabeth	D.C.
Groat, Barbara Helen	Ohio	Ranger, Barbara Alice	
Haddock, Margaret Pratt	Va.	(With distinction)	
Hamilton, Verna Steines	Va.	St. Omer Roy, Josephine Rhea	Va.
		Schweitzer, Selma	N.Y.



# Degrees Conferred

315

Segal, Janet Miriam	Md.	Sterling, Margaret Anne	D.C.
Sheppard, Mary Beth	Conn.	(Special honors in English)	
(With distinction)		Stewart, Dorothy Frances	Va.
Sirota, Mildred Harriet	D.C.	Strupp, Hans Hermann	D.C.
Smith, Arthur Jay	Va.	(With distinction)	
Snider, Helen Nancy	Ohio	Williams, Florence Elizabeth	Mich.
Snyder, Martha Frances	Va.	Wolf, Dorothy Lee	D.C.
Spector, Minerva Anna	D.C.	Worden, Maryanne	Ind.
Stambler, Arthur	D.C.	Woronoff, Rhoda	D.C.
(With distinction)		Young, Mary Ring	Md.
Stein, Ralph	D.C.		

## OCTOBER 17, 1945

Arnold, McAlpin Hill	Ga.	Jackson, Pauline Elizabeth Rhodes	Pa.
Band, Raymond Isaac	D.C.	(With distinction)	
Baylies, Helen Cummings	D.C.	Jacobson, Marshall H.	Va.
Bichoff, Shirley Lillian	Mich.	Kempster, Wanda Gold	Ark.
Bounous, Jenny Alice	D.C.	Kripe, Ellen Graham	D.C.
Charles, Anita Sophia	Md.	Lamm, Charlotte Armide	Md.
Coll-Pardo, Isabel Harrison	D.C.	McAlear, Frank Ed	Ark.
Corro, Pedro Francisco, Jr.	Panama	McCalley, John W.	Calif.
Creel, Hope	D.C.	McFall, Creed Flannary, Jr.	D.C.
Dum, Jesse Roy	D.C.	Meehan, Katherine Louise	Mo.
Donnell, Betty Jane	Ill.	Miller, Charlotte Nevins	Pa.
Fogarty, Thomas Patrick	D.C.	(With distinction)	
Griffin, Madge C.	D.C.	Morganston, Dolores Ethel	D.C.
(With distinction)		Nelson, Bertie	D.C.
Harmon, Gregory U.	D.C.	Pagter, Elizabeth Eugenia	D.C.
Isreall, Peter Roy	Calif.	Parker, Edith Helene	Tex.
		Peterson, Robert Lenus	Kans.

## FEBRUARY 22, 1946

Banigan, Elisabeth Clara	Va.	McCorkle, Mary Ellen	Va.
Berg, Joseph	N.Y.	Naah, M. Eleanor	Kans.
Brady, Luther Weldon, Jr.	Md.	(With distinction)	
Clayman, Betty Jean	D.C.	Palmer, Patricia Anne	D.C.
Collins, George Harwood	Colo.	Papps, Anne Ernest	Mich.
Denny, Alice Josephine	D.C.	(With distinction)	
Durst, Barbara Alice	Calif.	Ritchie, Thomas Boyd, Jr.	Md.
Ellis, John Flather	D.C.	Rothgeb, Edwina Yvette	Md.
George, William C.	Ill.	Silber, Rosslyn	D.C.
Guiney, John Edward, Jr.	Pa.	Smith, Grace Horsley	D.C.
Joe, Luisa Anna Maria Jozsi	Pa.	(With distinction)	
Jones, Don Russell	Ind.	Sternfeld, William Abbe	D.C.
Karpischek, Eva Antonia	Ohio	Turner, Caroline Embry	D.C.
Kassoff, Arthur Irving	N.Y.	(With distinction)	
(With distinction)		White, Edith Mary	Va.
Makela, Priscilla Josephine	Mich.		

## MAY 29, 1946

Allen, Avonne	Md.	Dekom, Otto Joseph	N.Y.
Alpher, Louise Ellen Simons	Md.	Dillon, Zietta Strayer	D.C.
Bates, David McGuire	Va.	(With distinction)	
Baum, Maria Spjelseth	Minn.	Doolittle, Mary Elizabeth	D.C.
Blake, Ella Rhea	D.C.	Elliott, Jane Laura	D.C.
(With distinction)		Epstein, Julius Eugene	Conn.
Blickensderfer, Ella Mansfield	D.C.	Esminger, Elizabeth Marie	D.C.
Brewer, Farrar Adlai	Ark.	Featherstonhaugh, Marcia Jane	Md.
Brecker, Katinka Elizabeth	Va.	Girdner, Doris Louise	Mo.
Britt, William Gaynor	Tex.	Hamowell, Ernest Goodin	Va.
Butler, Rosemary Katharine	D.C.	Harrison, Sarah Ann	D.C.
Callahan, Mary Jane	Ohio	Hays, Raymond LeRoy, Jr.	D.C.
Champlain, Mary Margaret	Va.	Hazel, Robert Elvin	Md.
Clark, Belvia Elaine	Va.	Hix, Jane Hutchinson	D.C.
Clark, Jane Elizabeth	D.C.	Hobbs, James Arthur	Va.
(With distinction)		Hogan, Patricia Collins	D.C.
Cordon, Rose	Idaho	Hammer, Martha Jean	D.C.
Crawford, Sadi Strosnider	W.Va.	Hyatt, Elizabeth Louise	D.C.

Kedan, Sylvia	D.C.	Randall, Jean Brodell	Md.
Keesling, Mona Jeanne	D.C.	Ridgeway, Jesse Edward	D.C.
Kolker, Selma Rapoport	D.C.	Rinewalt, Anna Una	Va.
Krehbiel, Mary Lou	Ohio	Rosenblum, Eleanor Bertha	D.C.
Krueger, Eleanor Louise	Va.	Rucker, Frances Norton	D.C.
Krueger, Janet Sheldy	Wash.	Schwane, Zaira Ernestine	N.Y.
Lancaster, Delores Alimore	D.C.	Seabrook, Martha Rachel	D.C.
Landstreet, Louise Davis	Va.	(With distinction)	
Larrick, Mary Lois	D.C.	Seigel, Mildred Beatrice	D.C.
Lingo, Jane Tunstall	D.C.	Smith, Myrtle Agnes	D.C.
(With distinction)		Solomon, Ruth Ullman	D.C.
Long, William Francis Edward II	D.C.	Stenes, Esther Bertha	Mo.
Lynn, Margaret Elizabeth	Va.	Sures, Ruth Ann	D.C.
(With distinction)		Switzer, Margaret Long	Tex.
Macgregor, Sue Spearman	D.C.	Thaler, Anne Marie	D.C.
Marsten, Robert Galloway	Md.	(With distinction)	
Meade, Arthur Edward	Va.	Thompson, Betty Ann	Va.
Meyerson, Winifred Aileen	Md.	Tobias, Marjorie Carol	Pa.
Miller, Antonine Geofrien	D.C.	Tracie, Helen Elizabeth	D.C.
Miller, Felicia Mary	D.C.	(With distinction)	
(With distinction)		Truman, Mary Margaret	Mo.
Miller, Phyllis	D.C.	Wade, Elizabeth	Miss.
Minnich, Ruth Catherine	Ohio	Weber, Helen Lawson	Va.
Misson, Nancy Louise	D.C.	Wells, Elizabeth Dorothea	Md.
Nierenberg, Leonard D.	Pa.	Webrow, Stanley Newman	D.C.
Noble, Ben Paul	Va.	Wheeler, Helen Bouschelle	D.C.
(With distinction)		Williams, Cynthia Ann	Mich.
Ogden, Mary Anderson	D.C.	Winston, Daoma	D.C.
Owen, Una	D.C.	(With distinction)	
Phillips, Cynthia Anne	Md.	Woodling, Francis Albert	Pa.
Post, Carolyn Lucille	D.C.		

## BACHELOR OF SCIENCE

## MAY 30, 1945

Brown, Suzanne Williamson	Va.	Posner, Irene	D.C.
Clements, Marjorie Angela	D.C.	Travis, Dorothy Frances	Md.
Cohen, June Rae	D.C.	Yotaw, Ruth Louise	Va.
(With distinction)		Wallos, Richard Fisher	D.C.
Eisenstein, Davette	D.C.	(With distinction)	
Herman, Sidney	D.C.	Walton, Thomas Snyder	D.C.

## OCTOBER 17, 1945

Cooper, Ruth Thelma	D.C.	Weilheimer, Lotte Ruth	D.C.
Ream, Donald Forest	D.C.		

## FEBRUARY 22, 1946

Charles, Jessalyne Lorraine	D.C.	Otting, William Joseph, Jr.	Md.
Hessing, Harold	N.Y.	Spindel, Sidney Simon	N.Y.

## MAY 29, 1946

Arkin, Lorraine Shirley	D.C.	Holman, Elizabeth Jeanne	Va.
Boyle, Peter Joseph	Minn.	Jenkins, Sarah Annetta	Md.
Bradford, William Robert	Md.	Mason, Shirley June	D.C.
Foreman, Darhl Lois	Idaho	Perros, Theodore Peter	D.C.
Grober, Doris Aline	D.C.	Riddell, Mera Velela Munn	D.C.
Harrow, Lee Salem	D.C.	Simmons, John Rogers	Va.
Hayward, Mildred	D.C.	Spaulding, Cecil Caylor	D.C.
Higgenson, Helen Rose	Va.	Ward, Edward Francis	

MASTER OF ARTS

MAY 30, 1945

Dorsey Margaret A.B. 1936, University of Virginia A.M. 1937, Columbia University	Va.	Falk, Marie Claeson A.B. 1941, The George Washington University	Va.
Eastin, Roy Brandon, Jr. A.B. 1942, The George Washington University	Ky.	Kaplan, Lillian May A.B. 1938, Brooklyn College	N.Y.

OCTOBER 17, 1945

Breiter, Mark Clinton A.B. 1932, Columbia University	N.Y.	Mantell, Leroy Harris A.B. in Govt. 1942, The George Washington University	N.Y.
Greenwald, Myron B.S. 1939, College of the City of New York	D.C.		

FEBRUARY 22, 1946

Cargile, Louis Clare, Jr. A.B. 1942, Dartmouth College	Ark.	Shelton, Emma B.S. 1941, University of Maryland	D.C.
Lewis, Beatrice Fleischman A.B. 1940, The George Washington University	D.C.	Tesh, Gardner Lewis A.B. 1941, The Catholic University of America	Va.
Pomerantz, Jacob A.B. 1942, The George Washington University	N.Y.		

MAY 29, 1946

Britt, John Francis Xavier A.B. 1942, The George Washington University	N.Y.	Owen, Jeannette A.B. 1933, University of Maryland	D.C.
Carignan, Lucille Stitt A.B. 1939, Ohio State University	Pa.	Palmer, Mary Loxlie A.B. 1945, Lincoln Memorial University	Va.
Denny, Alice Josephine A.B. 1936, The George Washington University	D.C.	Powell, Louise Hill-Conkey A.B. 1943, The George Washington University	D.C.
Elinson, Israel Jack B.S. 1937, College of the City of New York	N.Y.	Thomson, Elizabeth Van Anda A.B. 1935, Swarthmore College	D.C.
Howell, Mary Virginia A.B. 1943, The George Washington University	Tenn.	Riffolt, Astrid Margarita B.S. 1941, College of William and Mary	Va.
Hull, Maury Isaac A.B. 1932, Southwestern University	Tenn.	Willford, Richard Rescoe A.B. 1942, Beloit College	Wis.
Johnston, Hugh Buckner A.B. 1931, Davidson College	N.C.	Young, Cheng-Pang Graduate 1936, National Tsing Hua University	China
Moglen, Muriel Sussman A.B. 1945, The George Washington University	N.Y.		

MASTER OF SCIENCE

MAY 30, 1945

Alpher, Ralph Asher B.S. 1943, The George Washington University	Md.	Kiess, Harriet Knudsen A.B. 1916, Northwestern University	D.C.
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OCTOBER 17, 1945

Kelly, Margaret G. B.S. 1941, The George Washington University	D.C.
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## FEBRUARY 22, 1946

Karr, Philip R. B.S. 1944, M.S. in Educ. 1946, College of the City of New York	Md.	Roberson, Robert Errol B.S. 1943, University of Chicago	Mo.
McCoy, Horace Lyman, Jr. B.S. 1943, The George Washington University	Md.		

## MAY 29, 1946

Clark, John Fulmer, Jr. B.S. in E.E. 1942, Lehigh Univer- sity	Pa.	Guerin, Bernard B.S. 1944, Louisiana State University	N.Y.
Edward, Mary-Frances A.B. 1944, University of Texas	Tex.	Terry, John Hadlet B.S. 1937, M.S. 1938, Rensselaer Polytechnic Institute	N.Y.

## DIVISION OF UNIVERSITY STUDENTS

## BACHELOR OF SCIENCE IN SECRETARIAL ADMINISTRATION

## MAY 30, 1945

Way, Mattie Barton	S.C.
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## MAY 29, 1946

Gordon, Francyne	D.C.
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## THE SCHOOL OF MEDICINE

## DOCTOR OF MEDICINE

## MAY 30, 1945 \*

Americo, William Louis, Jr. B.S. 1942, University of Maryland	D.C.	Davis, Harold Arthur A.B. 1941, The George Washington University	D.C.
Bean, H. Richard A.B. 1942, American University	D.C.	Derouin, Ruth Elizabeth A.B. 1942, Mount Holyoke College	D.C.
Berry, Guy Nell II B.S. 1942, Northwestern University	Mo.	Doland, Alger B. III Dulin, Samuel Nathan, Jr.	N.J. N.C.
Bingham, Maurice Nolan Black, Emile Ann B.S. 1942, The George Washington University	Wash. D.C.	B.S. 1942, University of North Carolina	
Blount, Jasper Monroe, Jr. B.S. 1942, University of Mississippi	Miss.	Eckdahl, Robert Wilson Ellsworth, Homer Smith B.S. 1942, University of Arizona	Wash. Ariz. Oreg.
Caynes, Thomas Robert Carter, John Paul (With distinction)	D.C. D.C.	Farrell, Joseph Peter Geiger, Jason A.B. 1943, The George Washington University	D.C.
A.B. 1943, The George Washington University		Greaves, Howard P. B.S. in Pharm. 1942, University of Idaho	Idaho
Catey, Ernest Raymond, Jr. B.S. 1944, University of Wyoming	Wyo.	Gunning, John Emmett Gyarfas, William James A.B. 1942, University of Kansas	Calif. Kan.
Conklin, Charsen Baxter, Jr. A.B. 1942, Middlebury College	D.C.	Hardy, Frank McNairy, Jr. Harris, Lester Friedrich Hartscock, Frederick Barnes Hays, Freeman Cornelius	Wash. D.C. D.C. Miss.
Cooper, Irving S. (With distinction)	D.C.	B.S. in Pharm. 1941, University of Mississippi	
A.B. 1941, The George Washington University			
Crismond, Louis Anthony B.S. 1943, Mount St. Mary's College	D.C.		

\* In order to meet legal requirements, this degree, recognized at this time was conferred June 7.

# Degrees Conferred

319

Heenahan, Thomas Alexander B.S. 1941, University of Michigan	N.J.	Olsaker, Bennett A.B. 1941, The George Washington University	D.C.
Hoffman, Carl Joseph B.S. 1941, Catholic University of America	Pa.	Pattiss, Alvin Edward (With distinction)	D.C.
Holmes, Isham Earl Hunt, Robert Clarence B.S. 1942, Mount St. Mary's College	Mo. D.C.	Patterson, H. Eugene H A.B. 1942, Stanford University	Canada
Johnson, Donald Arthur Johet, John Dieber	Wis. Ohio	Prather, Charles DeVault, Jr. Price, John W. Kingston	D.C. D.C.
Kovac, Coleman William Kowalowski, Edward Joseph	Pa. Pa.	Rose, Jerome Victor Schene, Fred C.	D.C. Wis. Miss.
Kurland, Walter (With distinction) B.S. 1942, The George Washington University	D.C.	Shaw, Frances Page A.B. 1942, University of Mississippi	
Lando, Lester B.S. 1942, University of Michigan	N.Y.	Smith, Charles Reed Steele, Thomas Edward	D.C. D.C.
Littleton, Lucius Chandler A.B. 1940, Emory and Henry College	Va.	A.B. 1942, The George Washington University	
Lowe, Waynard Wilson B.S. 1942, University of Idaho	Md.	Stroup, Matthew A. Jr. A.B. 1940, University of North Carolina	N.C.
Martel, Stuart H. McKibben, Ernest Collette, Jr. B.S. 1942, Washington State College	Wash. Wash.	Swain, Garrett Michael Swerart, Jack Eugene	Md. Mo.
McLoone, Edward Watkins B.S. 1942, University of Notre Dame	Calif.	Tindellake, Philip Franklin A.B. 1942, Wheatlar College	Calif.
McLoone, John Joseph B.S. 1942, University of Arizona	Calif.	Towsey, Shirley Catherine Vargas, Lester Lambert	N.J. R.I.
McNaughton, Elisabeth H. Merrill, Lowell Carr A.B. 1942, Stanford University	Pa. Idaho	(With distinction) A.B. 1943, Brown University	
Miller, Max Stephen A.B. 1943, Fresno State College	Calif.	Walker, Carl J. Layton Welshier, Herbert Milton	Calif. D.C.
Miller, Spencer Kelsey A.B. 1942, Miami University	Conn.	A.B. 1943, The George Washington University	
Montgomery, Robert Rice (With distinction)	D.C.	Wilson, Thomas Moser Wood, Clayton Edward	D.C. D.C.
Nessell, William Edward A.B. 1942, The George Washington University	D.C.	A.B. 1942, American University Yates, Richard Anthony	Md. D.C.
		Yowell, William Bruce, Jr. (With distinction) B.S. 1942, University of Maryland	D.C.
		Zimmerman, Lorenz Eugene (With distinction) A.B. 1943, The George Washington University	

## FEBRUARY 22, 1946 \*

Adams, Samuel Webster A.B. 1943, The George Washington University	D.C.	Chapman, John Darrington Christensen, Olaf Herman	Miss. Wash.
Andresen, Norman Peter A.B. 1943, Stanford University	Calif.	Cook, Anne H. Foster Rush A.B. 1943, Vassar College	Pa.
Baker, Charles Paul A.B. 1940, University of Michigan	N.Y.	Crossland, Clem C. Jr. Dawson, Glenn Orville, Jr.	D.C. Calif.
Beck, Robert Charles Berté, Stephen Joseph A.B. 1943, Duke University	Ariz. N.Y.	Depew, Harry Walker A.B. 1941, University of California	Calif.
Blair, Edwin (With distinction) A.B. 1943, The George Washington University	N.Y.	Elliott, John Monet (With distinction) A.B. 1942, Stanford University	
Blanchard, Cyrus Lloyd A.B. 1943, Clark University	Mass.	Featherston, John Smith B.S. 1943, University of Mississippi	Miss.
Bohrer, Charles Arnold Boyd, William Dunbar A.B. 1943, The George Washington University	Mo. D.C.	Frasquet, Este E. de la Rosa Frazier, Donald Benjamin	P.R. D.C.
Brownlee, Harrison James A.B. 1942, Houghton College	N.Y.	A.B. 1943, The George Washington University	
Cerra-Quinones, José B.S. 1942, University of Puerto Rico	P.R.	Friedrich, Frederick Arthur A.B. 1943, Youngstown College	Ohio
		Gaston, Charles William A.B. 1943, University of Alabama	Ala.
		Gee, George Leonard, Jr. A.B. 1943, The George Washington University	D.C.

\* In order to meet legal requirements, this degree, recognized at this time was conferred March 1.

Goldstein, Norman Philip (With distinction) A.B. 1941, New York University A.M. 1942, The George Washington University	N.Y.	McKinney, Worth William Mead, Charles Alexander, Jr. (With distinction) A.B. 1943, The George Washington University	Okla. D.C.
González, Rodolfo Manuel A.B. 1942, University of California at Los Angeles	Calif.	Mears, Thomas Wakefield B.S. 1943, University of Alabama	Ala.
Hamilton, Paul Key, Jr. B.S. 1942, Birmingham Southern College	Ala.	Miller, Frank L. Montgomery, Robert Henry B.S. 1942, University of Dubuque	D.C. D.C.
Hawkins, Chief Fletcher Hendricks, Franklin D. B.S. 1940, Utah State Agricultural College	Calif. Utah	Morgan, James Martin, Jr. A.B. 1943, University of Alabama Naiman, Robert Morton A.B. 1943, The George Washington University	Ala. D.C.
Hill, Edward Crane (With distinction) Hoffman, Richard Franklin A.B. 1941, Fresno State College	Idaho Calif.	Neilson, Robert Oliver (With distinction) Newell, Charles Conklin	Calif. Ohio
Hopkins, George Jerome A.B. 1945, The George Washington University	Minn.	Norris, Donald A. A.B. 1942, University of Rochester	N.Y.
Irey, Robert Blair Janis, Leo B. A.B. 1942, Ohio State University	D.C. Ohio	Pallotta, Elizabeth Mary Paul, Eudell George Perkins, John Walter	Vt. Ind. D.C.
Johan, Morton A.B. 1943, The George Washington University	D.C.	Pollock, John Rogers, Jr. Preisser, Warren Godfrey A.B. 1943, The George Washington University	Okla. D.C.
Johnson, Linwood H., Jr. A.B. 1941, Brown University	R.I.	Randel, Hugh Wayne B.S. 1942, University of Oklahoma	Okla.
Johnson, William H. A.B. 1943, The George Washington University	Va.	Rankin, Joseph Eugene B.S. 1942, Catholic University of America	Md.
Kartus, Beatrice June A.B. 1941, The George Washington University	D.C.	Rea, Edward L. A.B. 1942, University of California	Calif.
King, Donald Perry A.B. 1943, Indiana University	Ind.	Reid, Spencer B. Rook, Rex Louis	Calif. Okla.
Lane, Walter Harold, Jr. A.B. 1943, The George Washington University	Va.	Seiscent, Verdi Italo A.B. 1942, University of Alabama	D.C.
Levin, Floyd Dale B.S. 1942, University of Washington	Wash.	Siddoway, John Lewis, Jr. Slater, Ronald Ballard, Jr. A.B. 1942, University of California	Utah Calif.
Livingston, Harold Charles Livingston, Samuel Lobb, Allan Wilbur	N.Y. N.Y. Wash.	Smith, Jullian Lyle Snow, Margaret Throckmorton A.B. 1938, Iowa Wesleyan College	Calif. Iowa
Loggins, James Elwyn, Jr. A.B. 1943, The George Washington University	D.C.	Sowers, James Adam A.B. 1944, Fresno State College	Calif.
Longley, Jay Rhodes A.B. 1944, Carleton College	Wis.	Sowers, Muriel Schatz A.B. 1943, The George Washington University	Calif.
Lyons, David Robert A.B. 1943, The George Washington University	N.J.	Spies, Harold W. B.S. 1942, Mount Union College	Ohio
Manthey, Charles Edwin Mattingly, Robert Andrew, Jr. A.B. 1943, The George Washington University	Ohio D.C.	Stoller, Raymond A.B. 1943, The George Washington University	D.C.
McCarthy, Robert Joseph (With distinction) A.B. 1943, The George Washington University	N.J.	Strout, Warren Greenleaf A.B. 1943, University of Maine Treichler, Howard Pettit	Maine D.C.
		White, Philip Taylor (With distinction) Zimmerman, Joe Adlai A.B. 1942, Westminster College	Ohio Mo.



## LAW SCHOOL

## BACHELOR OF LAWS

MAY 30, 1945

Atlas, Martin A.B. 1934, New York University A.M. 1935, Columbia University	N.Y.	Henry, Rhea Preston A.B. 1937, University of South Carolina	Va.
Boman, Howard F. A.B. 1938, University of Illinois	Ill.	Kerley, Martha Louise Kimpel, Ernest B., Jr.	N.C. Ark.
Calvert, Gordon, L. A.B. 1943, The George Washington University	D.C.	A.B. 1941, Arkansas Agricultural and Mechanical College	Tenn.
Clark, Marjorie Ida Flint, George Marsh, Jr. A.B. 1940, Harvard University	Ill. Mass.	Layne, Aaron Alvis, Jr. A.B. 1943, The George Washington University	
Gillespie, Mary Abbie B.S. 1920, A.M. 1933, George Pea- body College for Teachers	D.C.	Pincock, Dee Whitford Smith, Will Dan	Idaho Mo. D.C.
Haley, J. Tom, Jr. A.B. 1941, Arkansas Agricultural and Mechanical College	Ark.	Steinberg, Jack N. A.B. 1941, The George Washington University	Pa.
		Washington, Bushrod Corbin, Jr. A.B. 1943, The George Washington University	

OCTOBER 17, 1945

Dach, Joseph (With distinction) Dr. Juris 1920, University of Buda- pest	D.C.	Range, Blanche Vandalia B.S. in Ed. 1933, East Tennessee State Teachers College	Tenn.
Grady, Stafford Robert A.B. 1943, The George Washington University	Mich.	Sapiro, Allan Leroy A.B. 1943, University of California	Calif.
Oglesby, Robert Dorsey B.S. 1941, University of Pennsylvania	D.C.	Smith, John Russel	Utah
Packard, Howard Merrill B.S. 1932, Northwestern University	Ill.	Spindler, Pearl Goldstein A.B. 1940, Hunter College	N.Y.
Phillips, Joseph Lincoln A.B. 1943, The George Washington University	Tex.	West, Vincent A.B. 1939, Amherst College	N.Y.

FEBRUARY 22, 1946

Browning, Joseph Willmont, Jr. A.B. 1940, University of Alabama	N.J.	Keller, William Davis A.B. 1920, University of Southern California	Calif.
Calboun, Edward Joseph A.B. 1937, The George Washington University	Md.	Knight, Alfred Bishop A.B. 1941, Washburn College	Okla.
Champlain, Ellis E. A.B. 1942, University of Nebraska	Md.	Mack, Muriel Wamsted	D.C.
Colmetz, Martha Louise A.B. 1942, The George Washington University	N.C.	Mills, William Butler A.B. 1920, Bowdoin College	Maine
Day, Charles Herbert A.B. 1938, Penn College	Ohio	Reifsnyder, Charles Frank A.M. 1931, Syracuse University	Pa.
Gaynor, Robert Edward A.B. 1940, Rutgers University	N.J.	A.B. 1944, The George Washington University	N.Y.
		van Dam, Henry Drs. of Law 1939, University of Amsterdam	

MAY 29, 1946

Bacon, John Clifford Ben Ezra, Leon A.B. 1943, The George Washington University	Ohio N.Y.	Davis, Albert Plummer B.S. 1915, Northeastern University	Va.
Brugger, Vernon Walter B.S. in Ed. 1936, University of South Dakota	S.D.	Hall, Sheldon Franklin B.S. 1940, Virginia Polytechnic Institute	Va.

Hall, William Darlington B.S. in E.E. 1934, M.S. in E.E. 1935, E.E. 1940, West Virginia University	W.Va.	Olson, Carlous LeRoy Powers, Irving B.S. in C.E. 1934, Washington University	S.D. Mo.
Harness, Charles Leonard B.S. 1942, The George Washington University	Tex.	Rankin, Joseph Winfield A.B. 1941, The George Washington University	Idaho
Martin, John Gaillard McKinnon, William Thomas A.B. 1925, A.M. 1926, University of South Carolina	D.C. S.C.	Richards, Donald Alford A.B. 1940, Washburn College Spero, Abraham A.B. 1944, The George Washington University	Kans. N.Y.
Memler, Willard Robert A.B. 1941, The George Washington University	Va.	Sternberg, Edward M.B.A. 1942, University of Chicago	Ill.
Miller, Edith Hmay B.S. 1935, University of Idaho	Idaho	Tullar, Irving Meredith, Jr. A.B. 1938, Albion College	Ill.
Mitchell, Lawrence E. A.B. in Ed. 1938, Nebraska State Teachers College	Nebr.	Wiggins, Ronald Luther B.Adm. Eng. 1938, M.S. 1940, Syracuse University	N.Y.

## JURIS DOCTOR

MAY 30, 1945

Hunter, Frank R., Jr. B.S. in Eng. 1939, The George Washington University	Va.	Scott, Robert McCance A.B. 1942, University of Tulsa	Okla.
Mallick, Eugene Theodore B.S. in E.E. 1941, Drexel Institute of Technology	Pa.		

OCTOBER 17, 1945

Hartung, Elizabeth (With distinction) A.B. 1937, The George Washington University	D.C.	Shreve, Mary Fairfax A.B. 1935, College of William and Mary	Va.
McIntyre, Robert Varnon A.B. 1935, The George Washington University	D.C.	Young, Llewellyn Anker B.S. in E.E. 1938, University of Nevada	D.C.
Rose, John Kerr A.B. 1928, A.M. 1931, Indiana Uni- versity	Ill.		
Ph.D. 1935, University of Chicago			

FEBRUARY 22, 1946

Pinn, Samuel, Jr. (With distinction) B.M.E. 1941, College of the City of New York	N.Y.	Seibel, Laurence Elias (With distinction) B.S. 1940, College of the City of New York	N.Y.
Reiter, Robert Henry B.S. 1943, Ohio State University	D.C.	Shick, James Robert A.B. 1940, Pacific University	Oreg.

MAY 29, 1946

Cook, Dorothy Sweet A.B. 1931, University of Wisconsin	Wis.	Ewing, Lesley Clark A.B. 1940, Johns Hopkins University	Md.
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## MASTER OF LAWS

MAY 30, 1945

Binish, Stanley Edward B.S. 1920, LL.B. 1936, University of Wisconsin	Wis.	Simpson, Ellsworth Tenley LL.B. 1941, The George Washington University	Va.
Greenhaus, James LL.B. 1940, St. John's University	N.Y.	White, Bernard S. A.B. 1938, University of Nebraska	Nebr.
Sheneman, John R. B.S. 1939, United States Naval Academy	Ind.	LL.B. 1940, Creighton University	
LL.B. 1942, Harvard University			

## OCTOBER 17, 1945

Trent, William Franklin, Jr. Tenn.  
LL.B. 1944, University of Tennessee

## FEBRUARY 22, 1946

Goodrich, Ernest Whitmore	Va.	Johnson, Gillard Bayne, Jr.	Ky.
A.B. 1935, College of William and Mary		LL.B. 1944, University of Louisville	
LL.B. 1938, The George Washington University		Sheiner, Leo	N.Y.
		A.B. 1931, LL.B. 1933, Cornell University	

## MAY 29, 1946

de Medeiros, Fernando Saboia	Brazil	Southerland, Edwin William	Ga.
Diploma 1933, Ecole Libre des Sciences Politiques		B.S.C. 1937, LL.B. 1940, University of Georgia	
LL.B. 1944, The George Washington University		Watson, John William	Mass.
Joss, John Hubbard	Va.	A.B. 1933, Tufts College	
A.B. 1926, Yale University		LL.B. 1936, Boston University	
LL.B. 1931, University of Arizona		Yudkin, Leon	N.Y.
		B.S. 1942, LL.B. 1943, St. John's University	

## SCHOOL OF ENGINEERING

## BACHELOR OF CIVIL ENGINEERING

## MAY 30, 1945

Kilpatrick, George Alexander	Pa.	Skiles, James Joy	Idaho
		(With distinction)	

## MAY 29, 1946

Copeland, Alfred	Va.
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## BACHELOR OF ELECTRICAL ENGINEERING

## MAY 30, 1945

Bonwit, Stuart Eliot	N.Y.	Conrad, George Thomas, Jr.	D.C.
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## MAY 29, 1946

Doane, John Emil	D.C.	Moore, Malcolm Richardson	Va.
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## BACHELOR OF MECHANICAL ENGINEERING

## MAY 30, 1945

Berdahl, Edgar Oliver	Md.	Potter, Ralph Edward	Mo.
Graus, Hyman	Va.	Risley, William Linton, Jr.	N.J.
Kronstadt, Arnold Mayo	N.Y.	Stafford, John Coulter	Md.
Murray, Michael James	Tex.		

## MAY 29, 1946

Gareau, Rudolph	Mass.	Reich, Joseph S.	N.Y.
Goff, John Clifford	N.J.		



## BACHELOR OF SCIENCE IN ENGINEERING

MAY 30, 1945

Roberts, Frank Stuart

D.C.

OCTOBER 17, 1945

Jetton, Girard Reuel, Jr.

D.C. Spencer, Edward Guerrant

Mass

## CIVIL ENGINEER

MAY 29, 1946

McQueen, James Milton, Jr.  
B.S. in Eng. 1933, The George  
Washington University

La.

## MECHANICAL ENGINEER

MAY 29, 1946

Mintz, Fred  
B.S. in Eng. 1940, The George  
Washington University

Md.

## SCHOOL OF PHARMACY

## BACHELOR OF SCIENCE IN PHARMACY

MAY 30, 1945

Cranford, Ralph Wilbur

Ark. Roache, Sister M. Renée

D.C.

OCTOBER 17, 1945

Coran, Edward Robert

D.C. Levin, Stanley William

D.C.

MAY 29, 1946

Peels, Wilfred Everett

D.C.

## SCHOOL OF EDUCATION

## BACHELOR OF ARTS IN EDUCATION

MAY 30, 1945

Abrams, Lillian Gladys  
Averill, Virginia  
Comm. Ann Frederick  
Eberman, Blanche Tryon  
Homes, Joseph Myer  
Lyon, Mildred Carolyn  
(With distinction)P.R. Mauzy, Rebecca Allyn  
Md. Perwin, Marion  
Va. Sullivan, Joseph Jeremiah  
D.C. Welch, Elizabeth Churchill  
D.C. Wright, Ruth ElvaVa.  
N.J.  
Pa.  
N.Y.  
Ind.

OCTOBER 17, 1945

Alexander, Thelma Mary  
Coe, Lillian Irene  
DeShazo, Katherine Crenshaw  
Dixon, Kenneth Fife  
Lande, Sonia TarnopolGa. Lockridge, Mary Howard  
D.C. Oakley, Loretta Mary  
D.C. Spagnola, Catherine Dolores  
Idaho Thiele, Virginia Katherine  
Va.Tex.  
Ohio  
N.Y.  
Wis.

# Degrees Conferred

325

## FEBRUARY 22, 1946

Ayers, June Elizabeth  
(With distinction)  
Garson, Helen Perlman  
Hines, Vera C.

Ill. Ingolia, Anthony Arthur  
D.C. Johnson, Keifer Raye  
Minn. Nelson, Lois E.  
Smith, Francis DeSales

N.Y.  
Ala.  
Nebr.  
Md.

## MAY 29, 1946

Bender, Louise Martha  
Kendrick, Frances Elizabeth  
Kidd, Mary Betty  
Meinicove, Barbara Sauber

D.C. Moore, Marian Jane  
Va. Palmer, Grace Croswell  
W.Va. Ragdale, Wynette Adamson  
D.C. Turner, Myrtle Hearn

D.C.  
Md.  
Ga.  
Tex.

## BACHELOR OF SCIENCE IN HOME ECONOMICS

### MAY 30, 1945

Owen, Una Virginia Percy  
(Special honors)

Fla. Peck, Bobbe  
(Special honors)  
Shaffer, Helen Louise

D.C.  
D.C.

### OCTOBER 17, 1945

Forkner, Leone Prochnow  
Holden, Elizabeth

Wis. Stumph, Imogene Stroh  
N.Y.

D.C.

## FEBRUARY 22, 1946

Hoyt, Betty Minns

Md.

## MAY 29, 1946

Comer, Caroline Stewart  
Edwards, Mary Louise  
Hedler, Karolina Johanna  
Hudson, Margaret Christine

Va. Judd, Sally Frances  
D.C. Klowckow, Elinor Ramola  
D.C. Sykes, Malvina Yerger  
Va. Viet, Mary Louise

D.C.  
Wis.  
Miss.  
Va.

## BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

### MAY 30, 1945

Lyddane, Barbara Louise  
Miller, Mary Elizabeth  
Pollock, John Francis  
Rothchild, Marianne

Md. Stauffer, Jane Catherine  
D.C. Trone, Rosemary May  
W.Va. Wagman, Simon  
D.C.

D.C.  
Va.  
N.Y.

## FEBRUARY 22, 1946

Biskar, Ada  
Brown, Jeannette Alta

D.C. Prentiss, Catherine Watkins  
D.C.

D.C.

## MAY 29, 1946

Graham, James Woolard  
Smith, Phyllis Elaine  
Snyder, Dorothy Louise

W.Va. Snyder, John Daniel  
Mass. Wilamowski, Edward Joseph  
D.C.

Pa.  
Pa.

## MASTER OF ARTS IN EDUCATION

### MAY 30, 1945

Boggan, Lucille Brantley  
B.S. in Ed. 1943, Wilson Teachers  
College

D.C. Carden, Mary Stuart  
A.B. 1935, The George Washington  
University

D.C.

Cheney, Barbara Smith B.S. 1919, Wilson Teachers College	Va.	Johnson, Dorothy Lee B.S. 1940, Wilson Teachers College	N.C.
Cox, Claire London A.B. 1920, The George Washington University	Md.	Loring, Blake Marshall B.S. 1917, Sc.D. 1940, Massachusetts Institute of Technology	N.H.
Ernst, Lois Ellen A.B. 1944, Minot State Teachers College	D.C.	Maas, Leroy John B.S. in Ed. 1928, Oakland City College	Ind.
Gray, John Morris A.B. 1915, The Citadel	N.C.	Toothman, Arthur Herbert LL.B. 1916, Washington and Lee University	D.C.
Howerton, James Luther B.S. 1913, Central State Teachers College, Oklahoma	Okla.	S.J.D. 1943, National University	Mass.
		Wallace, Jennie B.S. in Ed. 1932, Boston University	

## OCTOBER 17, 1945

Eierman, Mary Harris B.S. 1943, University of Maryland	Md.	Leon, Helen Alberta B.F.A. 1935, Miami University	D.C.
Friend, Berta B.S. in Ed. 1941, New York University	N.Y.	Millard, Francis Rhodes A.B. 1928, Pacific Union College	Va.
Harris, Freeda Lucille A.B. 1920, The George Washington University	D.C.	Schubert, Coralie Williams A.B. 1915, Baker University	Kans.
Lee, Julia McEachin A.B. 1942, Oglethorpe University	Ala.	Stine, Mildred Catherine A.B. 1941, The George Washington University	Md.

## FEBRUARY 22, 1946

Angel, Grover LaMarr A.B. 1920, High Point College	N.C.	Pepmeier, Anita Wilhelmina B.S. 1940, Mary Washington College	Va.
Chu, Phyllis Shu-Yuan Teng A.B. 1938, Yenching University	China	Rai, Doris Mongol B.S. in Educ. 1935, Temple University	D.C.
Craig, Helen Knox A.B. B.S. in Educ. 1916, Ohio State University	Ohio	Read, Mary LoCascio A.B. 1933, Tulane University	La.
Demina, Harry Leroy B.S. 1930, The George Washington University	Va.	Thompson, Nellie Zetta A.B. 1944, The George Washington University	Nebr.
Foster, Ralph Waldo A.B. 1942, The George Washington University	Md.	Wasson, Elaine Joyce B.S. 1941, Wilson Teachers College	D.C.
Holley, Charles Lyle B.S. 1939, Northeastern State College	Fla.	Whitney, Inez Schneider A.B. 1920, Southwestern Institute of Technology	Va.
James, Walter Raymond A.B. 1942, The George Washington University	Va.	Wilkins, Leah Woods A.B. 1943, The George Washington University	D.C.
Leonard, Dorothy Virginia A.B. 1941, Washington College	Md.	Wyman, Ethel Louise B.S. 1935, Northwest Missouri State Teachers College	Minn.
Menzell, Homer Sellers B.C.S. 1942, University of Georgia	Ga.		

## MAY 29, 1946

Christie, Mollie Waters A.B. 1918, College of William and Mary	Md.	Linehan, Louise Wyman B.S. in Ed. 1935, Northwest Missouri State Teachers College	Minn.
D. Lind, Helen-Marie Byars B.S. in Phys. Ed. 1942, The George Washington University	D.C.	Morgan, Alice Susan B.S. 1938, University of Maryland	D.C.
Grady, Florence Moran B.S. in Ed. 1939, Marywood College	D.C.	Pilson, Pauline Mae A.B. 1910, Asbury College	Pa.
Hackett, Marjorie Lee B.S. 1941, University of Maryland	Md.	Redfield, Adele Price A.B. in Ed. 1943, The George Washington University	D.C.
Hoover, Merle Vincent A.B. 1941, Susquehanna University	Pa.	Robertson, Mildred Jones A.B. 1914, Earlham College	D.C.
Lambson, Theodora S. B.S. in Ed. 1918, Wilson Teachers College	D.C.	Rolston, Elizabeth B.S. 1916, State Teachers College, Harrisonburg, Va.	



Stanley, Clara Hardway  
B.S. in Ed. 1932, Ohio State University  
Whitlock, Mollie Brazeal  
B.S. in Ed. 1942, University of Virginia

Ohio Whitney, Inez Schneider  
A.B. 1929, Southwestern Institute of Technology  
Va.

Va.

DOCTOR OF EDUCATION

MAY 30, 1945

Vanderlip, Robert Griswold  
A.B. 1927, University of Michigan  
A.M. 1931, Columbia University  
Thesis: "The Student Council in American Secondary Schools: Criteria and Instruments of Evaluation"

D.C. Wilburn, Daniel Banks  
A.B. 1936, Shepherd State Teachers College  
A.M. 1940, West Virginia University  
Thesis: "A Particular Program of Instruction in Arithmetic in Grades I, II, and III"

W.Va.

FEBRUARY 22, 1946

Baker, Samuel Harry  
A.B. and B.F. in Ed. 1924, A.M. in Ed. 1926, The George Washington University  
Thesis: "Management Practices in Large High Schools"

Md. Nosal, Walter Stanley  
B.S. 1940, Indiana State Teachers College  
A.M. 1943, The George Washington University  
Thesis: "Professional Education of Secondary School Teachers with Implications for Pennsylvania"

Pa.

MAY 29, 1946

Johnson, Joseph Bueol  
A.B., A.M. 1941, East Texas State Teachers College  
Thesis: "The Problems Involved in the Audio-Visual Program"

Tex.

SCHOOL OF GOVERNMENT

BACHELOR OF ARTS IN GOVERNMENT

MAY 30, 1945

Bagby, Mary Lawton  
(With distinction)  
Balfour, Dan Arthur  
Birdsell, John Edmund  
(With distinction)  
Broadie, Helen  
Charrier, James William  
Feldman, Sydney  
(With distinction)

Md. Harpeter, Leatrice Joy  
D.C. Kempton, Margaret Jay  
D.C. Lundberg, June Camellia  
Lyons, James Robert  
Tex. O'Connell, James Fredrick  
Idaho Pardy, Beverly Brooks  
Pa. Webster, Mary Earle

D.C.  
Md.  
Fla.  
Minn.  
S.C.  
N.Y.  
D.C.

OCTOBER 17, 1945

Abercrombie, Jefferson Hyde, Jr.  
Callomon, Susan Eva  
(With distinction)  
Disler, Oscar Charles

Ga. Kirby, James Wardlaw  
D.C. Pollin Abraham  
Pa. Wagner, Irving Isidore

S.C.  
D.C.  
N.Y.

FEBRUARY 22, 1946

Beronio, Peter Anthonie  
Dechert, Joseph Alfred  
Dougherty, Frank Robert

N.J. Kelsauer, Evelyn Olive  
Pa. Thompson, Frank Marion  
Md. von Kummer, Samuel Miller

Md.  
N.Y.

## MAY 29, 1946

Brody, Herman	D.C.	Kalter, Karl	D.C.
Christopherson, Olaf Warren	Minn.	Klipple, Mary Jane	Colo.
Dickey, Joyce Jayne	Ark.	Mallory, Robert Henry	Ky.
Dik, Elsa Lilly	N.Y.	McClenon, Paul Robert	Md.
Emshwiller, John Patterson, Jr.	Ind.	(With distinction)	S.D.
Evans, Janet Stokes	Ohio	McDonald, Margaret	D.C.
(With distinction)		McLaughlin, Leila Lytle	N.J.
Genna, Joseph	N.Y.	Mezines, Basil John	Pa.
(With distinction)		Ross, Daniel Michael	D.C.
Geran, Robert Kinney	Ohio	Sherman, Phyllis Sophia	N.Y.
Hamm, Charles S.	Mass.	Snider, Sidney Raymond	Ind.
Heltzman, Joseph	D.C.	Steadman, Helen Louise	Md.
Huey, Theodric Wood	Ala.	Thomas, Ferris Bertram	Md.
Hussar, Edward John	Ill.	Volz, Mary Elizabeth	Md.

## MASTER OF ARTS IN GOVERNMENT

## MAY 30, 1945

Abrams, George	N.Y.	Seligman, Harold Leonard	Mass.
A.B. 1943, The George Washington University		A.B. 1940, Harvard University	Pa.
Geneau, Camille Marion	Fla.	Yocum, Earl Phares	
B.S. in Com. 1940, Florida State College for Women		B.S. 1935, State Teachers College, East Stroudsburg, Pa.	

## OCTOBER 17, 1945

Mayer, Janice Kathryn	Calif.
A.B. 1941, University of California	

## FEBRUARY 22, 1946

Gottlieb, Sylvia Bronstein	D.C.
A.B. 1943, Hunter College	

## MAY 29, 1946

Batchelder, Jane Olin	Minn.	Myer, Ruth Estelle	N.Y.
A.B. 1944, University of Minnesota		A.B. 1937, Hunter College	D.C.
Boyd, Frances Porter	Tenn.	Sonnino, Mario Anthony	
B.B.A. 1938, University of Chattanooga		Dr. in Econ. and Com. 1939, Royal University of Rome	Va.
Henricksen, Essie Audrey	Oreg.	Teitelbaum, Irving	Calif.
A.B. 1929, University of Oregon		B.S. in Bus. and Pub. Adm. 1941, Georgetown University	
Koteen, Bernard Alexander	D.C.	Wheeler, Robert Prentiss	
B.S. 1934, University of Pennsylvania		A.B. 1942, University of California	
Mapou, Albert	N.Y.		
B.S. 1941, College of the City of New York			

## GRADUATE COUNCIL

## DOCTOR OF PHILOSOPHY

## MAY 30, 1945

Hodgkins, George Wilson	D.C.	Robinson, Joe Adams	S.C.
A.B. 1915, A.M. and T.D. 1916, The George Washington University		B.S. 1935, University of Oklahoma	
Thesis: "The Attitudes of Recent American Educators Toward Social Change"		A.M. 1937, The George Washington University	
		Thesis: "The International Tin Restriction Scheme (with Special Emphasis on British Malaya)"	

*Degrees Conferred*

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OCTOBER 17, 1945

Hewes, Laurence Holey, Jr.  
B.S. 1924, Dartmouth College  
Thesis: "Some Migratory Labor  
Problems in California's Special-  
ized Agriculture"

Calif.

Mortensen, Edith Elizabeth  
A.B. 1925, Carleton College  
A.M. 1927, University of Minnesota  
Thesis: "The Morphology, Behav-  
ior, and Habits of *Polydora Ligna*  
Webster"

D.C.

MAY 29, 1946

Lane, Ralph Hoover  
A.B. 1929, Capital University  
A.M. 1932, Ohio State University  
Thesis: "Thomas Middleton's *A  
Mad World, My Masters*"

Ohio



## RECIPIENTS OF AWARDS

### SCHOLARSHIPS

1945-46

- American Foundation for Pharmaceutical Education Scholarship:* Arvilla M. Keller  
*The Byron Andrews Scholarships:* Shirley Gimbel, Myrtle Agnes Smith, Elizabeth McWane Trucks  
*The Emma K. Carr Scholarships:* Norman Harold Friend, Richard Channing Harmstone  
*The Columbian Women Scholarships:* Mildred Ann Campbell, Dorothy Ray Maupin, Martha Rachel Seabrook, Vera Jordan Weishopf  
*The Isaac Davis Scholarships:* Frances Hartley, Mildred Hayward  
*The Debate Scholarships:* Glenn S. Faxon, Elaine Mildred Langerman, Betty Jane Watt  
*The Robert Farnham Scholarship:* Joyce Jayne Dickey  
*The Elma Lewis Harvey Scholarship:* Margaret Eleanor Pritchard  
*The High School Scholarships:* Edward Walter Bauman, Ella Rhea Blake, Barbara Lee Borrow, Vivian Toba Burke, Jean Otilia Casanova, Jane Elizabeth Clark, Dorothea van Rensselaer Cruger, Clark Davison, Barbara Lindsay Dilli, Maryanne Elizabeth Dotson, Dorothy Jean Eggeling, Barbara Louise Hanby, Nancy Rika Hanck, Mildred Hayward, Margaret Erskine Holliman, Mona Jeanne Keesling, Calva Kephart, John Herbert Kerlin, Vivyan Mary Kimmel, Betty Jean Klotz, Mary Olga Longley, Lois Carolyn Lord, Patricia Ann Ludwig, Margaret Elizabeth Lynn, Chester Hayden McCall, Harden Marsden McConnell, Shirlee Ellen McGraw, Shirley June Mason, Felicia Mary Miller, Mary Alice Novinger, Clara Louise O'Neil, Elizabeth Ann Paisley, Roy Elliot Ritts, Doris Lorraine Rock, Barbara Anne Simms, Cecil Caylor Spaulding, Morton Lee Spiegel, Gisela Sterling, Charmian Ettinger Tompkins, Harry Jackson Tucker, Robert Williams Walker, Marian Emma Woolley  
*National Institute of Public Affairs Scholarship:* Jerome Rothenberg  
*The Newspaper Scholarships:*  
*Evening Star:* Eleanor Kaye Ryce  
*Washington Post:* John Virgil Waits  
*The David Spencer Scholarship:* Donna Marie Hill  
*The Ellen Woodhall Scholarship:* Joyce Jayne Dickey

### PRIZES

1944-45

- Alpha Chi Sigma Freshman Awards in Chemistry:* Clarke Davison, Walter Carl Goldstein, Howard Hamilton Johnson, Jr.  
*Alpha Chi Sigma Senior Award in Chemistry:* Richard Fisher Wallis  
*Alpha Delta Pi Award in French:* Jane Tunstall Lingo  
*Alpha Kappa Psi Award in Commerce:* Arthur Stambler  
*American Institute of Chemists Award in Chemistry:* Richard Fisher Wallis  
*American Society of Civil Engineers Award:* James Joy Skiles  
*American Society of Mechanical Engineers Awards:* Edgar Oliver Berdahl, Arnold Mayo Kronstadt  
*Byrne Thurtell Burns Award in Chemistry:* Richard Fisher Wallis  
*Chi Omega Award in Social Sciences:* Betty June Karle

- John Henry Coe's Awards in Government: Mary Lawton Bagby, Sydney Feldman
- DeWitt Clinton Croissant Award in Drama: Barbara May Kurtz
- E. K. Cutter Award in English: Margaret Anne Sterling
- Isaac Davis Awards in Public Speaking:  
First—Dollie Rubye Hamler  
Second—Frank Ed McAnear  
Third—Robert Lenus Peterson
- Delta Zeta Award in Botany: Jean Carter Prichard
- Ellsworth Award in Patent Law: Bernard M. Newburg
- Joshua Evans III Memorial Award to that man in the graduating class who has demonstrated his special ability in the social and political sciences and who has given promise of the interpretation of that ability in good citizenship among his fellows: Arthur Stambler
- Willie E. Fitch Award in Chemistry: Richard Fisher Wallis
- Alice Douglas Goddard Award in American Literature: Norene Frances Burnett
- Edward Carrington Goddard Award in French: Lorraine Givens
- James Douglas Goddard Award in Pharmacy: Sister M. Renee Roache
- Morgan Richard on Goddard Award in Commerce: Mary Lawton Bagby
- Kappa Kappa Gamma Award in Botany: Agnes Ayre
- John Bell Lerner Award to that member of the graduating class of the Law School who shall have attained the highest average grade in the entire course: Daniel Crystal, class of September 1944
- Mortar Board Award to the woman student in the Sophomore Class having a scholastic standing of B or higher and the most outstanding record in activities: Lois Carolyn Lord
- Omicron Delta Kappa Award to that member of the Senior Class who, throughout his course, has done the most constructive work in student activities: James Edgar Huddleston
- John Ordronaux Awards to those members of the graduating class of the School of Medicine maintaining the highest scholastic standing: Alvin Edward Parrish, Lester Lamber Vargas
- Phi Eta Sigma Award to the beginning male student attaining the highest scholastic average in his first full term of work: John Christian Gail, Richard Channing Harmstone
- Phi Sigma Sigma Award in Zoology: Marjorie Elizabeth Raab
- Phi Sigma Sigma Nileen Cooper Award in Psychology: Florence Elizabeth Williams
- Pi Beta Phi Award to that member of the Senior Class who, throughout her course, has done the most to promote student activities: Virginia Ann Nalis
- Pi Lambda Theta Award to the student who produces, during the year, the most meritorious Master's thesis in Education: Josephine Wayts Howdershell, class of September 1944
- Rugles Award in Mathematics: Alfred D. Sollins, class of February 1945
- Sigma Kappa Award in Chemistry: Clarke Davison
- Sigma Tau Award in Engineering: Haaren Albert Miklosky
- James MacBride Sterrett, Jr., Award in Physics: Clark Callister Watterson
- Theta Tau Award in Engineering: George A. Kilpatrick

1945-46

- Alpha Chi Sigma Freshman Awards in Chemistry: Paul Richard Compher, Jr., Richard Edwin Hunton, Harold Shulman
- Alpha Chi Sigma Senior Award in Chemistry: Edward Francis Ward
- Alpha Delta Pi Award in French: Ann Thaler

- Alpha Kappa Psi Award in Commerce:* Philip Anthony Yahner  
*American Institute of Chemists Award in Chemistry:* Lorraine Shirley Arkin  
*Chi Omega Award in Social Sciences:* Jane Hutchinson Hix  
*John Henry Coxes Awards in Government:* Paul Robert McClenon, Janet Stokes Evans  
*Dewitt Clinton Croissant Award in Drama:* Zietta Dillon  
*E. K. Cutter Award in English:* Martha Seabrook  
*Delta Zeta Award in Botany:* Mariam Pohl  
*Ellsworth Award in Patent Law:* Robert Godwin Irish  
*Joshua Evans III Memorial Award to that man in the graduating class who has demonstrated his signal ability in the social and political sciences and who has given promise of the interpretation of that ability in good citizenship among his fellows:* Ben Paul Noble  
*Willie E. Fitch Award in Chemistry:* Elizabeth Jeanne Holman  
*Alice Douglas Goddard Award in American Literature:* Sarah Ann Harrison  
*Edward Carrington Goddard Award in French:* Helen Tracie  
*Morgan Richardson Goddard Award in Commerce:* Joseph Genna  
*Gardiner G. Hubbard Memorial Award in United States History:* Raymond Leroy Hayes  
*Kappa Kappa Gamma Award in Botany:* Jean Berlinstein  
*John Bell Larner Award to that member of the graduating class of the Law School who shall have attained the highest average grade in the entire course:* Elizabeth Hartung  
*Mortar Board Award to the woman student in the Sophomore Class having a scholastic standing of B or higher and the most outstanding record in activities:* Barbara Lee Borror  
*Omicron Delta Kappa Award to that member of the Senior Class who, throughout his course, has done the most constructive work in student activities:* William Francis Edward Long II  
*John Ordronaux Award to that member of the graduating class of the School of Medicine maintaining the highest scholastic standing:* Norman Philip Goldstein  
*Phi Eta Sigma Award to the beginning male student attaining the highest scholastic average in his first full term of work:* Richard Edwin Hunton  
*Phi Sigma Sigma Award in Zoology:* Patricia Ludwig  
*Phi Sigma Sigma Nieren Cooper Award in Psychology:* Grace Horsely Smith  
*Pi Beta Phi Award to that member of the Senior Class who, throughout her course, has done the most to promote student activities:* Margaret Elizabeth Lynn  
*Pi Lambda Theta Award to the student who produces, during the year, the most meritorious Master's thesis in Education:* Francis Rhodes Millard  
*Sigma Kappa Award in Chemistry:* Richard Edwin Hunton  
*James MacBride Sterrett, Jr., Award in Physics:* Hardin Marsden McConnell  
*Alexander Wilbourne Weddell Award for essay on World Peace:* Jean Fraser Kerr

## STUDENT ASSISTANTS

JUNE 1, 1945 TO JUNE 1, 1946

- Botany:* Agnes Ayre, Charles Craft, Mary Elizabeth Donnelly, Mildred Hayward, Eleanor Kreiger, Marian D. Manning, Doris C. Power, Natalie Roberts, Ruth Smith, J. Arthur Throne, Harold Wingo.  
*Business Administration:* Eugene T. Aldridge, Jr., Albert P. Brodell, Jr., Edward Neville DeFreitas, Harold R. Evans



- Chemistry:** Lorraine S. Arkin, John Edward Beck, Paul L. David, Helen R. Higginson, Jeanne Holman, Shirley June Mason, Theodore Perros, Helen Elizabeth Ross, Norman E. Sharpless, Hildegard Simenauer, Cecil Caylor Spaulding, Richard F. Wallis
- Economics:** Joseph B. Epstein, Miriam Isenman Frechtman, Daniel R. Fufeld, John W. McCalley, Margaret Pritchard, Donald Page Ray, Bella Schwartz, Dorothy V. Wallace
- Education:** Edith Helen Bruin, Byron McClain Cochran
- Electrical Engineering:** Theodore W. Nelson
- English:** Philip T. Hertzbrun, Nancy Jane O'Rourke, Natalie Roberts
- History:** Elsa Dik, Janet Evans, Patricia Garrett, Mona Jeanne Keesling, William Klubach, Jane Lingo, Betty Mayfield, Gloria C. Menzel, Anne Stewart, Anne Thaler
- Home Economics:** Leone P. Forkner
- Library:** Julio Andersen, Victor E. Barton, Ella Blickensderfer, Pauline Chakeres, Mary M. Champlain, Martha Lou Cherry, Mimi C. Cherry, Belva Elaine Clark, Edith Cunningham, Mary E. Elliott, Mildred Espinosa, Dahrl Foreman, Sara Elizabeth Glover, Martha F. Haynes, Jane Hix, Edna Hughes, Joan Hyatt, Isabelle Knowles, Ellen Liska, Leila McLaughlin, Suzanne Massonneau, Winifred Meyerson, Barbara Ringer, Patricia Schwab, Betty Thompson, Alma-Jean Tolan
- Mechanical Engineering:** Arthur Charles Brown, John Clifford Goff
- Pharmacy:** George Chilcoat, William E. Tant
- Philosophy:** Bowman P. Anderson
- Physics:** James P. Burns, Jr., Janet Deutsch, Richard E. Hunton, Elizabeth Faulkner Massie, Frank Dean Nichols, Virginia Sherwood
- Physical Education for Women:** Charlene Holley, Carol Nicodemus, Jacqueline Weber
- Political Science:** Jane E. Clark, Jane Hix, Winifred Meyerson, Mary Ann Moffett, Eloise Spearman, Helen Steadman, Roger B. Tilley, Ida Jeanne Tobias
- Psychology:** Louise Ellen Alpher, Martha Eleanor Gresham, Gloria Halpern, Jeannette Malin, Betty Malman, Muriel S. Moglen, Joan Platt, Cynthia Williams
- Statistics:** William Cohen, Frank Proschan
- Zoology:** Avonne Allen, Martha Lou Cherry, Dorothy Cooper Cokelough, Mary-anna Elizabeth Dotson, Mary Frances Edward, Virginia M. Elmendorf, Darhl Foreman, Doris S. Gates, Doris L. Girdner, Doris Grober, Sidney Loube, Miriam Jean Maxwell, Helen McConnell, Marjorie Raab, John R. Simmons

# STUDENTS REGISTERED

## SUMMER TERM 1945

### FALL AND WINTER TERMS 1945-46

A		
Aarons, Isadore Alfred		
B.S. 1931, University of Chicago	Ga.	Adams, Shirley Cranford
Abbe, Janet Louise		Adams, Sylvia E.
Abbey, Edda	D.C.	B.S. 1940, Northeastern State College,
Abbott, Abbott Demetrious	N.Y.	Tahlequah, Okla.
Abbott, Alfred Achilles	D.C.	Adams, Theo Carl
Abbott, Edward Albert	D.C.	A.B. 1943, The George Washington
Abbott, Mary Lee	D.C.	University
Abbott, Robert Sutton	Vt.	Adams, Warren Thomas
A.B. 1943, Kent State University	Ohio	B.S. in C.E. 1931, Georgia School of
Abdol, Shafer Aziz		Technology
Abelman, Anna Lee	D.C.	Adamson, George Q.
Abell, Charles Whitney	D.C.	B.S. 1935, Iowa State College
Abendschein, Mary Jane	D.C.	Addabbo, John James
Abercrombie, Ellabeth	D.C.	Addington, Harold Eugene
Abernathy, Milton Bryant	D.C.	A.B. 1939, University of Kansas
Abernathy, Virginia Louise	Tex.	A.M. 1942, Syracuse University
B.S. 1936, Virginia State Teachers	D.C.	Adel, Sam
College, Radford	Va.	Adell, Margaret Virginia
Abney, Archie Lowell		Adolph, Roehina Nellie
B.S. 1939, University of Illinois	Ill.	Adkins, Arlie Andrew
Abou-Gabal, Salah El-Din		Adkins, Constance R.
Abou, Irma	D.C.	Adler, Alexander
Abraham, Hommey Lorraine	P.R.	Ady, John Hamilton
Abraham, Sidney	Iowa	Aebli, Helen R.
B.S. 1936, College of the City of	D.C.	Aldem, LeRoy P.
New York		Afleck, John Williams
Abramowitz, Bernard	N.Y.	Agee, Eleanor Pryor
Abramowitz, Cecil S.	Mich.	A.B. 1942, Wellesley College
Abramowitz, Charles	N.Y.	Agpaola, Pedro Orque
Abrams, G. Doris	N.Y.	Agrait, Francisco
B.S. 1941, Queens College		Agulnick, Carolyn Joan
Acheson, Annie Alice	Md.	Agusiewicz, Henry Anthony
Ackerman, Joseph Laurence	Del.	Ahalt, Arthur M.
Ackerman, Paul	D.C.	B.S. 1931, University of Maryland
Aosta, Cesar Romeo	D.C.	M.S. 1937, Pennsylvania State College
Action, Virginia Livingston	D.C.	Ahlfield, George Samuel
Adamkiewicz, Mary Jewel	Va.	Aiken, John Howard
B.S. in Ed. 1941, University of Georgia	D.C.	Aiken, Milton Irwin
Adams, Alice Jeannette		Aikman, Edward
Adams, Catherine Effie	Va.	Ailes, Curtis L., Jr.
A.B. 1944, Oberlin College	Vt.	B.E.E. 1941, Ohio State University
Adams, Donald Myrle	Mass.	Ailes, Margaret Shaw
Adams, Frances Evelyn	Nebr.	A.B. 1943, Cornell University
Adams, Gay	N.M.	Ainilian, Agnes
Adams, Josephine Mary	N.Y.	Ainsworth, Margaret Anne
Adams, Kenneth Stanley, Jr.	Okla.	Aizpurua, Nestor
Adams, Leontine Towson	Va.	B.S. 1944, Panama University
A.B. 1940, A.M. 1941, The George		Aker, Zubeyir
Washington University		Akman, Frank Phillip
Adams, Leroy Money	Va.	Alai, Jahangir
A.B. 1927, Vanderbilt University		Alatus, Isadore Charles
LL.B. 1930, University of Mississippi		Alawine, Alton Jackson
Adams, Lorena McCallister	Okla.	Alba, Carmelo Vincent
Adams, Lorraine Elsie	D.C.	B.S. 1940, University of Wisconsin
Adams, Robert Melvin	D.C.	Albhamonte, Eugene
Adams, Samuel Webster	D.C.	Allyn, Emil Lelan, Jr.
A.B. 1941, The George Washington		Albaugh, Helen Elizabeth
University		Alberghini, Thomas Joseph
		B.S. in Ed. 1943, Holy Cross College
		Athers, Patricia Hannelly
		Albert, Alfred Lobe

Albert, Irwin R. A.B. 1936, The George Washington University	D.C.	Alpher, Ralph Asher B.S. 1945, M.S. 1947, The George Washington University	Md.
Albert, Leila Meita	D.C.	Albright, Jack R.	D.C.
Albert, Rita Lucie	Maine	Altman, Seymour Lewis A.B. 1941, The George Washington University	N.Y.
Albert, Sterling Hartwell	Va.		
Alde, Robert Olaver	Ill.	Altman, Jack B.S. 1943, College of the City of New York	D.C.
Alderman, Alice Vivian	Conn.	Altman, Charles Franklin	D.C.
Alderson, Sarah Lee B.	D.C.	Altier, Earl Augustine	Va.
Alderson, Walter Stanley	Md.	Altman, Colman Parker	D.C.
Aldridge, Eugene Talbert M.	D.C.	Alvis, Frank Rials B.S. in B.A. 1938, University of Richmond	Va.
Alexia, Claribel	D.C.		
Alexander, Andrew William	D.C.	M.B.A. 1939, University of Pennsylvania	
Alexander, Elizabeth F. A.B. 1941, Bryn Mawr College	Ill.	Alwood, Marian	D.C.
Alexander, Robert Perival B.T. 1942, University of Missouri	D.C.	Amber, Robert Warren	Ill.
Alexander, Thelma Mary A.B. 1935, University of Alberta	Ga.	Amble, George Chester B.S. 1941, The George Washington University	Md.
Alford, Virginia Gray	D.C.		
Alger, Maria Helen	D.C.	Ambrase, Andrew	D.C.
Alger, Shirley Ann	D.C.	Ames, Farley Antonette	Va.
Allabough, Robert Franklin A.B. 1944, Dartmouth College	N.J.	Amshury, Margaret Ann	D.C.
Allen, Elizabeth H. L.L.B. 1947, Harvard University	D.C.	Amos, Catherine Tresa	D.C.
Allen, Elizabeth H. B.S. 1948, Whitrop College		Amos, Gloria Harriet	N.Y.
Allen, Theodore Henry M.S. 1946, New York University	D.C.	Amos, Nicholas Constantine A.M. 1948, Columbia University of Athens, Greece	N.Y.
Allenman, Hubert Charles A.B. 1929, West Virginia University	La.	Anderson, Constantine Cecelia	N.Y.
Allen, Alexander A.B. 1944, Pennsylvania State College	Md.	Anderson, Martha Julia	Va.
Allen, Dwight L. B.S. 1939, Texas Christian University	Tex.	Anderson, Alan DeWitt, Jr. B.S. 1943, The George Washington University	Md.
Allen, Francis Franklin	Calif.	Anderson, Bernhard Theodore	Md.
Allen, Grace F. Alexander	D.C.	A.B. 1936, Washington Missionary College	
Allen, H. Dorothy B.Ed. 1936, Illinois State Normal University	Va.	A.M. 1948, Catholic University of America	
A.M. 1944, University of Iowa		Anderson, Bowman Cowne	Va.
Allen, James Morton	Va.	Anderson, Carl Robert	D.C.
Allen, Jonathan Harvey	Tenn.	Anderson, Catherine B.	D.C.
Allen, Lord Robert B.S. 1941, Pennsylvania State College	Pa.	Anderson, David Emory	D.C.
Allen, Mary Powers	Miss.	Anderson, Donald Harold B.S. 1943, Birmingham Southern College	Va.
Allen, Mary Stoner	Va.	Anderson, George Franklin	Va.
Allen, Mabel Cabbage	Va.	Anderson, Gilbert LeRoy	Iowa
Allen, Pamela Edgar A.B. 1938, Lafayette College	Pa.	Anderson, Henry Alexander A.B. 1931, Concordia College	Md.
Allen, Ronald Menden	D.C.	Anderson, Isabelle	Kans.
Allen, Thorvald Christensen	Mass.	A.B. 1943, University of Kansas	
Allen, William Aron B.S. 1938, Montana State College	Va.	Anderson, Margaret Willie	D.C.
Alender, Bird Jacquette	Md.	Anderson, Martin	D.C.
Alley, Victor A.B. 1940, The George Washington University	D.C.	Anderson, Nellie Carr A.B. 1943, The George Washington University	D.C.
Alley, Barbara Joanne	Ind.	Anderson, Ours Roy	Okla.
Alley, Edith B.S. 1936, Western Carolina Teachers College	N.C.	Anderson, Russell John	D.C.
Alison, H. Bryan	Tex.	Anderson, Stephen Lee	W.C.
Almon, William Dominic	D.C.	Anderson, Sue Moore	D.C.
Almeyer, Ralph Boyley	Md.	Anderson, Wayne Russell	N.D.
Alm, Noel Travis	Va.	Anderson, Charles Harold B.S. 1939, Kent State University	Ohio
Alm, Jean Louise	D.C.	Anderson, Norman Peter A.B. 1941, Stanford University	Calif.
Alma, I. Pasham	D.C.	Anderson, Robert Rowland A.B. 1942, Stanford University	Va.
Almar, Jacob	D.C.	Andrews, Anna Vaughan	Mass.
Alpert, Alice	R.I.	Andrews, Bert Williams A.B. 1942, The Citadel	D.C.
Alpert, Hymen	D.C.	Andrews, Harry Ivan, Jr.	Md.
Alpher, Louise Ellen	Md.		



Andrews, Marie Joy	Va.	Arnold, Dorothy Arnold	Mo.
Andrews, Robert Bruce	Mass.	Arnold, Helen Irene	D.C.
Andrews, Thurlley Louise	R.I.	Arnold, Katherine	Ark.
Andrich, Dan J.	Minn.	A.B. 1924, Hendrix College	Va.
Andrulis, Alphonse Michael	Mass.	Arnold, Kenneth Wilmer	Va.
Andrus, Virginia Dawden	Va.	Arnold, Mary Ann	Ga.
A.B. 1944, The George Washington University		Arnold, McAlpin Hill	Va.
Angel, Grover LeMarr	Md.	Arnold, Robert Daniel	Tenn.
A.B. 1929, High Point College		Arnold, Robert Ward	D.C.
Angusbeck, Patricia Ann	Mo.	Arnold, Sally Jessie	N.Y.
Anthony, Evelyn Marie	D.C.	Aronin, Louis	
Antonelli, Nick Vincent	D.C.	A.B. 1945, Brooklyn College	
Antwary, Alexander	D.C.	Aronstein, Berthold	D.C.
Apear, Harry Emanuel, Jr.	Pa.	Aroyan, George Francis	D.C.
A.B. 1948, Lafayette College		B.S. 1945, United States Naval Academy	
Appar, Herbert LeRoy	D.C.	Arrick, Alma Arlene	Ohio
Appel, Rose	D.C.	Arthur, Robert Miller	D.C.
Appelbaum, Zona Lee	D.C.	Artz, Lena Clemens	Va.
Appelbaum, Albert	D.C.	A.B. 1927, College of William and Mary	
Applebaum, Helen Joan	D.C.	A.M. 1935, The George Washington University	Va.
Appleby, James Scott	D.C.	Ash, Ruth Clyde	
A.B. 1944, University of Arizona		A.B. 1944, Pennsylvania State College	Md.
Appleby, Mary Jane	Va.	Ash, Willard Osborne	
A.B. 1941, Piedmont College		A.B. 1937, St. John's College	
Appleby, Virginia Jackson	D.C.	A.M. 1944, University of Maryland	Ind.
Appleton, Margaret Esther	D.C.	Ashby, Robert Samuel	
A.B. 1945, Pomona College		A.B. 1938, Indiana University	
Aptaker, Cecelia	Pa.	LL.B. 1941, Harvard University	N.J.
Arbogast, Wanda Leigh	D.C.	Ashley, Dwight Stuart	
Archer, Benjamin Lester	Md.	B.S. in M.E. 1942, Massachusetts Institute of Technology	D.C.
Archer, Crit Alexander	Miss.	Ashley, Gertrude I.	
Arena, John	D.C.	A.B. 1939, Skidmore College	Pa.
Arnault, Newton	D.C.	Ashman, Raymond N.	D.C.
Arns, Melba Maria	Panama	Ashton, Howard Frederick	D.C.
Arnkawa, James T.	Calif.	Ashton, Kenneth Douglas	Miss.
B.S., D.D.S. 1945, University of Southern California		Ashton, Rudolph Alexander	
Ariz, Mohamed Awab	Afghanistan	A.B. 1940, The George Washington University	Va.
Ark, Lorraine Shirley	D.C.	Ask, Armistice Margaret	D.C.
Arkoran, Garabed	D.C.	Asowitch, Sarah Gertrude	Wash.
Arlos, Francis Astor	D.C.	Aap, Nosi Arthur	
Armbruster, Ralph Edward	Va.	LL.B. 1933, National University	D.C.
Armenaki, Clarence James	N.Y.	Atema, Kathryn May	D.C.
Armenaki, Marie Lon	Oreg.	Aters, Helen Virginia	D.C.
A.B. 1945, Florida State College for Women		Aters, Nelson Lee	D.C.
Armfield, Anne Ella	Va.	Atherholt, Marianne	D.C.
Armstrong, Patricia Liu	Va.	Atkeson, Helen Douglas	Ohio
A.B. 1947, Yenching University		Atkinson, Charles Fred	D.C.
M.S. 1949, Louisiana State University		Atkinson, Wade Hampton	Mo.
Armor, Althen Howell	D.C.	Aubuchon, Marian Alice	D.C.
Armstrong, Edwin Lee	D.C.	Auerbach, Ella	Pa.
Armstrong, Eileen Juanita	D.C.	Auerbach, Julius	N.Y.
Armstrong, Frances L.	Va.	Auerbach, Rita Louise	
B.S. 1936, Mary Washington College		A.B. 1945, Hunter College	D.C.
Armstrong, Joseph Donald	D.C.	Auger, Andy	D.C.
Armstrong, Mary Elizabeth	S.D.	August, Frank Joseph	D.C.
Armstrong, Nancy Margaret	D.C.	B.S. 1944, The George Washington University	D.C.
Armstrong, Vernon George	Mich.	Augustine, Irma Irene	
A.B. 1944, A.M. 1944, Michigan State College of Agriculture and Applied Science		Anna, Margaret P.	
Armstrong, Woodrow Jennings	Okla.	A.B. 1945, Colorado State College of Education	Va.
Armasan, Kristi	Wash.	Auman, Katherine Fairfield	Ky.
B.S. 1944, University of Washington		Austin, Jane Elise	D.C.
Arndt, C. O.	D.C.	Austan, Ralph Raymond	Md.
Arndt, Willis Leroy	D.C.	Austrian, Janet	
Arness, Katherine Thorne	Va.	A.B. 1939, Bennett College	W.Va.
Arnold, Carole Ellen	Ill.	Auvil, Gertrude Aileen	D.C.
Arnold, Cecil Hammond	Wash.	Avanena, Manuel Claude	Pa.
A.M. 1941, State College of Washington		Averill, Ruth Frances	
Arnold, Dana Marlatt	D.C.		

# Students Registered

337

Avery, John Lawrence	D.C.	Baker, Ray Gordon	W.Va.
B.S. 1937, University of Maryland		Baker, Ruth Arleen	Neb.
A.M. 1939, The George Washington University		Baker, Samuel Harry	Md.
Avery, Jackson Donald	D.C.	A.B. and B.Dip. 1924, A.M. 1926, The George Washington University	
Awalt, Gilbert Haslup	D.C.	Baker, Sara	D.C.
Awamuk, Joseph, Jr.	Mass.	A.B. 1943, University of Oklahoma	
Awtry, DeJan	Ga.	Baker, Sarah Sugar	Md.
Axilrod, Benjamin M.	Va.	A.B. 1944, University of Maryland	
B.E.E. 1933, M.S. 1934, University of Minnesota		Bakerman, Howard Arthur	N.Y.
Axtman, Doris Norma	D.C.	B.S. 1942, College of the City of New York	
Aye, Ralph Claxton	D.C.	Bakris, Nancy Lee	Wash.
Ayers, Lorne Elizabeth	Ill.	Balaker, Basil Charles	Pa.
Ayers, Margery Jeanne	Va.	Balcom, Holline Flora	Va.
Aylward, Margaret Fayerweather	D.C.	Balcom, Margaret MacDonald	Tenn.
A.B. 1940, Vassar College		A.B. 1940, The George Washington University	
Aylward, Patricia Lileen	Mass.	Balcom, Raymond Douglas	Mass.
Aylward, Robert Allen	Wis.	A.B. 1946, Clark University	
Aynes, Edith Annette	D.C.	M.B.A. 1942, University of Michigan	
Ayre, Agnes		Baldi, Patenza Henrietta	D.C.
		Baldick, Olive Alexia	D.C.
B		Baldrige, Elizabeth Logan	D.C.
Baar, Joy Shirley	D.C.	Baldrige, Ross	Md.
Babcock, Ellen Stewart	Va.	Baldwin, Alan Lee	Ill.
Babcock, George Henry	Ind.	Baldwin, Lawrence Philip	Va.
Baldick, Margaret Shipper	D.C.	Baldwin, Margaret Lois	D.C.
Babin, Vannie Merle	Mass.	Baldwin, William D.	N.Y.
Babin, Robert Sidney	D.C.	B.S. 1939, Syracuse University	
Bach, Emily Frances	N.Y.	Balfour, Don Arthur	D.C.
Bachman, Helen	D.C.	A.B. 1945, The George Washington University	
Bachmann, Mary Agnes	D.C.	Balinger, Richard King	Va.
Bachrach, Florence Sylvia	D.C.	Ball, Harold Ori	D.C.
Bachtel, Joe Van	D.C.	B.S. 1926, University of Arizona	
Bachus, Margaret G.	Ohio	Ball, Harris Hartwell	Tex.
A.B. 1941, Dickinson College	Va.	Ball, Lavenia Frances	D.C.
Bacon, Barbara Elmer	D.C.	Ballantine, Barbara	D.C.
Bacon, James Everett, Jr.	Md.	A.B. 1938, Smith College	
Bacon, John Clifford	Ohio	Ballap, Richard August	Va.
Bacon, Lorraine Graham	D.C.	Ballenger, John Myers	Pa.
Bacon, Maurice Graham	N.Y.	Ballou, Edmund S.	N.M.
B.P.A. 1935, Yale University		Ballinger, John Carter	D.C.
Bader, Michael Haley	Calif.	Ballow, M. Frances	Tex.
Baer, Eugene Walther	Pa.	Banc, Jack Miles	D.C.
Baer, Max F.	D.C.	Bancle, Bernice Iona	N.C.
L.L.B. 1937, Creighton University		Bancroft, Elizabeth Clara	Va.
A.M. 1942, Columbia University		Bancroft, William Claire	Va.
Baib, Garlick Hugh	Ark.	Banks, Catherine	Fla.
Baib, Vincent Joseph	Mich.	Banks, Mary Virginia	W.Va.
Baib, Isabel Jane	W.Va.	Banks, Melvin Dewey	D.C.
Bailey, Labe Elmer	Ola.	Banks, Milton Wallace	D.C.
Bailey, Matella Delphine	D.C.	Banks, Minnie	D.C.
Bailey, Margaret Lucille	D.C.	B.S. 1936, Madison College	
Bailey, Richard Lake	Md.	Banks, Troy Lee	D.C.
Bailey, Wilma Blanche	D.C.	Banks, Virginia Mabel	Ola.
Baiman, Jerome	N.Y.	Baranson, Stanley	N.Y.
Bain, Robert Francis	N.Y.	Baranick, Alfred Howard	D.C.
Bainbridge, Mary Elizabeth	D.C.	A.B. 1941, State Teachers College, Montclair, N. J.	
Baines, Dorothy	D.C.	Baranick, Carole Eunice	D.C.
Baisel, Alvina Louise	Iowa	Barbi, Preston Albert	Va.
Bausinger, Grace Chepolis	D.C.	Barbe, Alexander William	Pa.
Baker, Albert	D.C.	Babee, Beverly Williams	D.C.
Baker, Arthur Thomas	Va.	Barbella, Rosemary Helena	D.C.
Baker, Charles Jewell	D.C.	Barber, Charles Hugh	Va.
Baker, Daniel Duane	D.C.	B.S. 1945, Randolph-Macon College	
Baker, Donald Carroll	D.C.	Barber, Forest Chester	Ola.
Baker, Dorothea Anna	D.C.	Barber, Lester Alexander	Va.
Baker, Elma Louise	D.C.	A.B. 1948, Columbia University	
Baker, Gloria Jeannette	Ohio	Barber, Lucille Eleanor	Pa.
Baker, Harry LeRoy	D.C.		
Baker, Marilyn Jeanne	Ola.		
Baker, Mary Josephine	Ill.		

Barber, Robinson Hulce A.B. 1929, McPherson College	Kans.	Bartimo, Vincent Joseph	Mass.
Barbour, John Underwood		Bartlett, Dorsey Joseph	W.Va.
Barco, Maurice Columbus, Jr.	D.C.	Bartlett, Fred Deering	D.C.
Barclay, James B.	D.C.	Bartlett, John Stanton, Jr.	D.C.
Barclay, Henry G.	Va.	Bartlett, Marcia Lenore	D.C.
Barclay, Josephine	N.Y.	Bartlett, Ruth Cole	Md.
Bares, Matilda Juan	D.C.	B.S.C. 1933, B.S. 1935, Temple University	
B.S. 1946, Colegio de La Salle, Panama	Panama	M.S. 1941, Simmons College	
Bateaux, Frances		Bartlett, William Hugh	Va.
Bates, Howard Cooper, Jr.	D.C.	Barton, Elizabeth Jane	Okla.
Batholomew, Alfred Frederick, Jr.	Md.	A.B. 1942, Phillips University	
Barker, Katherine Ellen	D.C.	Barton, Floretta Glisson	D.C.
A.B. 1942, University of Maryland		A.B. 1940, Northwestern University	
Barker, Roy Winfred	D.C.	A.M. 1940, The George Washington University	
Bartley, Mabel A.	D.C.	Barton, Mary	Ark.
B.S. 1925, A.M. 1927, George Peabody College for Teachers		Barton, Victor Ewing	Va.
Barlas, Abel	N.Y.	Barwick, Joel Richard	Md.
Barlow, Harriet Thompson	D.C.	Bashore, Audrey Elaine	D.C.
Barlow, Howard Charles	D.C.	Baskin, Robert E.	Va.
B.S. in E.E. 1949, Carnegie Institute of Technology		Baskin, Ruth Esther	Fla.
Barlow, Shirley N.	Mass.	A.B. 1943, University of Pennsylvania	N.Y.
Barnes, Howard W.	Ohio	Bass, Leo	Md.
A.B. 1944, Muskingum College		Bassford, James Cockrelle	
Barnard, Paul Leslie, Jr.		A.B. 1941, The George Washington University	
Barnard, Robert Louis	Ark.	Bassler, Alida Baker	Mass.
Barnes, Barry Carter, Jr.	D.C.	Bassener, Oliver Herbert	Wis.
Barnes, Carl A.	S.C.	L.L.B. 1936, Marquette University	
B.B. 1941, University of Wisconsin	Wis.	Batchelder, Jane Olin	Minn.
Barnes, Frances L.		A.B. 1944, University of Minnesota	
Barnes, Kyle Dalton	Mich.	Batease, John Charles	D.C.
Barnes, LeVerda Louise	Ala.	Bateman, Barbara Louise	D.C.
Barnes, Mildred Clare	Mo.	Bateman, William Raphael	D.C.
Barnett, Abby Joy	Tex.	Bates, David McGraw	Va.
Barnett, Clara H.	N.Y.	Bates, Frederick LaRoy	D.C.
B.S. in Ed. 1942, Ohio State University	Ohio	Bates, Marilyn Jeanne	Ill.
Barnett, Louis Lucille		Bates, Virginia Mae	Mich.
Barnett, Thomas Edward	Md.	Bates, Ward Peniston	Conn.
Barnes, Ann	D.C.	A.B. 1939, Tufts College	
Barnes, Olga	D.C.	Batham, John Charlton, Jr.	Md.
Barnhart, C. Paul	Pa.	Barbary, Joseph Patrick	D.C.
A.B. 1940, Lebanon Valley College	Md.	Barkin, Josephine	N.Y.
Ed.M. 1942, University of Maryland		Bator, Theodore Edward	D.C.
Barns, Richard Post		Batsch, Mary Margaret	Ill.
A.B. 1942, Pennsylvania State College	Pa.	Battani, Victor	Md.
A.M. 1944, Ohio State University		Battani, Seta Williamson	D.C.
Barnum, Herbert Murray	N.Y.	Bary, Francis Dambart	D.C.
Barr, Ann Franklin		B.S. 1926, University of Kansas	Va.
Barr, Earl Wilfred	Calif.	Bauer, Amelia	D.C.
Barr, John Lester, Jr.	Mo.	Bauer, Catherine Regina	D.C.
A.B. 1949, Harvard University	Md.	Bauer, Dean Francis	
Barr, Leonard DeLozier		A.B. 1942, Louisiana State University	D.C.
Barrington, William R.	Neb.	Bauer, Frederick Albert	Va.
Barront, Beverly Mae	N.Y.	Bauer, John Peter	Md.
Barront, Mary Alice	D.C.	Bauer, Mary Grayhill	D.C.
Barront, Thomas Joseph	Wyo.	Bauerlein, Anna Catherine	D.C.
Barrickman, Ray Ellsworth	Pa.	Bausers, Frank W.	Mo.
A.B. 1944, West Virginia University	Ark.	Bengt, Allen Alberta	Mass.
L.L.B. 1948, University of Arkansas		Benn, Maria Sioderseth	N.Y.
Barrington, Phyllis Elizabeth		Baum, Warren Charles	
Barron, Sarah Jane	D.C.	A.B. 1942, Columbia University	D.C.
Barr, Adrienne Lillian	Md.	Bauman, Edward Walter, Jr.	
Barr, Barbara Louise	Va.	Bauman, Robert Joseph	Pa.
Barr, Catherine May	N.H.	Bauman, Stanley H.	D.C.
Barr, Francis Xavier	Va.	Baumann, Dorothy Clare	Va.
Barr, Joseph Edmund	D.C.	Baumann, George David, Jr.	D.C.
Barr, Thomas Anthony	D.C.	Baumann, Jane Marie	D.C.
Barrigan, Flora Marie	D.C.	Baumann, Julia Mary	D.C.
Bartch, Carl Edward	Pa.	Baumgardner, Russell Howard	
Bartelmeier, Teresa Jean	D.C.	B.S. 1941, St. Paul's College of Law	Va.
	D.C.	Baume, Harry Brooks	N.Y.
	D.C.	Baumgarten, Seymour Harvey	



Baumgartner, Paul Cordell	D.C.	Beckman, John Albert	Ohio
Bauserman, James Edward	Va.	B.S. in E.E. 1944. University of Cincinnati	
B.S. 1936. Madison College		Beckert, David Theodore	Md.
Baxa, Edmund Theodore	Kans.	Beddington, L. Ruth	N.C.
Baxter, Andrew Holman, Jr.	Va.	Bee, Joseph Francis	Pa.
B.Mus. 1929. University of Pennsylvania		Bee, Max Culbertson	Nebr.
Baxter, Marcelline	W.Va.	A.B. 1931. Park College	
Baxter, Mary Jane	D.C.	Beebe, William Bevell	Iowa
Baxter, Norman Kirkman	D.C.	Beecher, Mary Tyler	Md.
Bay, Paul Georgeoff	D.C.	Beerman, Jacqueline Anne	Va.
Bayer, George	D.C.	Beers, John Sturges	D.C.
Bayles, Carlina McDonnell	D.C.	Bephan, Anne Marie Jeanne	Belgium
Bayless, Elise	D.C.	Belabetz, John Joseph	D.C.
Bayless, Helen Cummings	D.C.	Belling, John Lawrence, Jr.	Md.
Baynard, Ernest Corvish	Va.	Belend, Rodolph Bernard	D.C.
Bayne, Hazel Mae	D.C.	Belens, Albrecht Rodolfo	D.C.
Bays, Kathleen Belle	W.Va.	Belian, Joseph Andrew	Ohio
Bazak, Henry Victor	Va.	Behmer, Barbara Lee	Calif.
B.S. in E.E. 1936. New York University		Behrmann, Laverne Theodore	Ill.
Beach, David Jerome	Md.	Beil, Martha C.	D.C.
Beach, George R.	Va.	A.B. 1933. Drury College	
Beacham, Joy Katherine	D.C.	Bemaslen, Jose Fernando	Peru
Beard, George Eleanor McWilliams	Va.	Beisel, Edward Lincoln	D.C.
Beal, William Ashby	D.C.	Beland, Dorothy Louise	D.C.
Beale, Donald Cupp	D.C.	Belasich, Ralph Joseph	D.C.
Beale, Elizabeth E.	Va.	Bell, Eleanor G.	D.C.
Beale, Frank Dunnington	D.C.	Bell, Ethel Albinson	Mass.
Beall, Charlotte	D.C.	Bell, Forrest Haratio	D.C.
Beall, Dorothy Lorraine	D.C.	Bell, Frankie Ellen	D.C.
Beall, Elizabeth Ann	D.C.	Bell, Ivan Francis	Va.
Beall, Miriam Shirley	D.C.	Bell, John Murphy	Okla.
Beam, Ethel Mae	Md.	B.S. 1933. University of Oklahoma	
Beamer, Alan L.	Pa.	Bell, Katherine	Va.
B.S. 1935. California State Teachers College	Va.	Bell, Lenore Ruth	D.C.
Beames, Phyllis Joann	D.C.	Bell, Melvin	Ind.
Beamesdatter, Sara	Pa.	B.S. in M.E. 1940. Purdue University	
Bean, Henrietta Mae	Mont.	Bell, Pauline Thomas	D.C.
Bean, Mary Elizabeth	Va.	B.S. 1936. Wilson Teachers College	
Bean, William Martin	D.C.	Bell, Procella Emily	Mass.
Beane, Jeannette Frances	D.C.	Bell, Raymond Leslie	Va.
Beard, Richard Warfield	D.C.	Bell, Robert Charles William	Mass.
Beard, Lucie Meade	Va.	Bell, Roy N.	Ala.
Beard, Margaret	D.C.	Bel'garde, Arthur Victor	N.Y.
A.B. 1944. Wellesley College		Bellis, Tom	Va.
Beard, Robert Hardy	Va.	A.B. 1920. Southeast Missouri State College	
Bearden, Hatchel Ebb	Va.	Bellows, Everett Hollis	Va.
Beatson, Stuart Campbell	Va.	A.B. 1939. A.M. 1941. The George Washington University	
Beatrice, Edith Mary	Va.	Bellows, Grace Evelyn	Va.
Beattie, Joan Taylor	Va.	Belmont, Daniel A.	Va.
Beatty, Alta Mae	D.C.	Below, Margaret Calbeck	D.C.
Beatty, Eleanor	N.Y.	Beltz, Jean Margaret	D.C.
A.B. 1931. Bryn Mawr College		B.S. 1944. Wilson Teachers College	
Beatty, Harry Barton	Va.	Beltzova, Klavdya Nikolaevna	U.S.S.R.
Beatty, Jay Ralph	D.C.	Bemasch, Ralph Joseph	Wyo.
Beatty, Vernon Le Roy	Pa.	Bender, John Joseph	D.C.
Beavers, Virginia Lee	D.C.	Bender, Louise Martha	D.C.
Beck, Frances F.	Ohio	Bender, William Carl, Jr.	D.C.
Beck, Hugo Michael	D.C.	Benedetto, Lillian Theresa	Del.
Beck, John Claus, Jr.	D.C.	Benedict, Thomas Reilly	D.C.
Beck, John Edward	D.C.	Beneman, Charles Henry	D.C.
Beck, Mary Elizabeth	Iowa	A.B. 1944. The George Washington University	
Beck, Preston Ellsworth	Va.	Beneteau, Roger Joseph	N.Y.
Beck, Vera Audrey	Mich.	B.S. 1941. University of Lyon	
Becker, Florence Pearl	Kans.	Ben Ezra, Leon	N.Y.
Becker, Joseph	D.C.	A.B. 1944. The George Washington University	
Becker, Mildred Edna	N.J.	Bengtson, Ann Franklin	Va.
A.B. 1941. Middlebury College		Beni, Jack	W.Va.
Beckerlex, William Henry	Mich.	Beninson, Orchard	Va.
Beckett, Beverly Anne	Md.		
Beckler, Leona Helen	Calif.		

Benitez, Salvador	D.C.	Berne, William	D.C.
Benjamin, Betty Ruth	D.C.	Berner, John Peter	N.Y.
Benjamin, Vernon Edgar	N.Y.	Bernst, Louis Conrad	Va.
Benjamin, Walter Edwin	D.C.	Bernstein, Bernard	N.Y.
Benn, Hazel Elizabeth	Maine	B.S. 1942, The George Washington University	
Benn, Ila Irene	Iowa	Bernstein, Harold	D.C.
Bennet, Nancy Ellen	Ohio	Bernstein, Jerome Leonard	D.C.
Bennett, Anne L.	Kans.	Bernstein, Philip Harris	D.C.
Bennett, Betty Ann	D.C.	Bernstein, Sylvia P.	N.Y.
Bennett, Blair Miller	D.C.	A.B. 1949, Hunter College	
A.B. 1938, Georgetown University		Bernstein, William Herbert	D.C.
A.M. 1949, Columbia University		Bernett, Malcolm Ernest	D.C.
Bennett, Elizabeth S.	N.Y.	Berry, Alice Justine	Calif.
Bennett, Gordon Duward	Va.	A.B. 1947, Smith College	
Bennett, J. Edward	Mass.	Berry, Bewelle Jean	Va.
Bennett, Martin S.	D.C.	Berry, Douglas Patrick, Jr.	D.C.
Bennett, Oran Lee		Berry, Elmer Francis	D.C.
B.S. 1941, Davis and Elkins College		Berry, Mary Chapman	D.C.
Bennett, Ross Stanley	D.C.	A.B. 1945, The George Washington University	
Bennett, Verselle Leonard	D.C.	Berry, Robert Hahn	Ohio
Bennett, William Frank	D.C.	Berry, Ruby Adele	S.C.
Bennison, Haden Clark	D.C.	A.B. 1944, Furman University	
Bennison, DeLeo Smith	Utah	Berry, William Robert	D.C.
Benson, Eleanor	Va.	Berryman, Dorothy Maybelle	Va.
Benson, Jessie Evelyn	D.C.	Bers, Elmer Kline	D.C.
A.B. 1944, Wellesley College	Mass.	Bersak, Seymour	N.Y.
Benson, Mary Louise	Va.	B.B.A. 1944, College of the City of New York	
Best, David William	Conn.	Berteling, Hildegarde	D.C.
A.B. 1937, Yale University		Bertelsman, Patrick Edgar	D.C.
M.B.A. 1942, University of Pennsylvania		Berthold, Herbert Kurt	Ind.
Benton, Leah Della	Iowa	Bertman, Bernice Betty	Oreg.
Berenson, Solomon Martin	D.C.	Bertram, Charles Grant	D.C.
Berezow, Louis	D.C.	Berulis, Martha Margaret	Pa.
Berg, Florence Robert	Va.	Berz, Lorant B.	D.C.
Berg, Joseph	D.C.	Berzito, Joseph J.	Pa.
Berg, Julius Donald	N.Y.	B.S. 1938, Pennsylvania State Teachers College, Mansfield	
Berg, Louella Miller	Md.	Besbria, David Charles	Mass.
Berg, Martin Donald	Md.	Best, Barbara Jean	Va.
Berger, Bernard Nelson	D.C.	Best, Crossett Mitchell	Ark.
Berger, Martin	D.C.	B.S. 1937, University of Alabama	
Berger, Rhoda	Pa.	Best, Joseph Theodric	D.C.
Berger, Robert Frederic	Md.	Best, Robert Eugene	Ind.
Berger, Robert John	Ill.	Best, Ronald Harvey	S.D.
Berger, Suzanne Harding	N.Y.	B.S. 1941, Eastern State Normal School, South Dakota	
Berslund, Gloria Genexieve	Minn.	Beste, Joan Margaret	Nebr.
A.B. 1944, Gustavus Adolphus College		Bethel, Brimley L.	D.C.
Berkeley, Arnold D.	N.Y.	Bevans, Beverly Leo	Va.
A.B. 1941, I.L.B. 1943, New York University		Beveridge, Elusa Schiaudni	D.C.
Berkhouse, Rudolph George	Ohio	Beveridge, Joan Winifred	Md.
B.S.C. 1940, Ohio State University		Beveridge, John Ludwell	D.C.
Berkol, Fark Nurettin	D.C.	Bevis, Charles Vann	Fla.
Berkowich, Mark	D.C.	Bevis, Kathryn Reynolds	Va.
Berkowitz, Leon	Pa.	Bexley, Nellie Katherine	Md.
B.F.A. in Ed. 1934, University of Pennsylvania		A.B. 1941, Washington College	
Berkowitz, Leonard M.	N.Y.	Beyda, Joseph	Va.
A.B. 1940, Brooklyn College		Beyr, Katherine Bozorth	Va.
Berlanstein, Jean Bernice	D.C.	B.S. 1944, Radcliffe College	D.C.
Berman, Alan	Va.	Bialek, Bernice	D.C.
Berman, Alex	D.C.	Bialek, Robert	Va.
Ph.G. 1947, St. John's University		Bianco, Francesco Marco	Va.
Berman, Fay Riva	D.C.	Bianco, Jean Wallace	
Berman, Irene Phyllis	D.C.	B.S. 1939, Columbia University	Ariz.
Berman, Milton	D.C.	Bibolet, Roland Henry	
Bernard, Richard Montgomery	Calif.	A.B. 1942, University of Arizona	Mich.
B.S. 1945, University of California		Bidstrup, Dudley J.	D.C.
Bernard, William Bekker	Ga.	A.B. 1939, A.M. 1940, University of Missouri	
B.S. in E.E. 1936, University of Florida			
Bernat, Frank	D.C.		
Berndt, Gertrude Lillian	Minn.		

# Students Registered

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Bidwell, Robert Gordon B.S. 1938, United States Naval Academy	N.Y.	Black, John Tatlock A.B. 1914, Harvard University	D.C.
Bie, Ellen Allen	Fla.	Les-L. 1938, Sorbonne University	
Bienfang, Marcella Lucinda	Iowa	Ph.D. 1942, Harvard University	
Bienka, Walter John	Ill.	Black, Mildard Alan, Jr.	D.C.
Bird, Jack Steadton A.B. 1941, Ed.M. 1942, University of Maryland	Md.	Blackmon, E. B.	Ark.
Birbee, Daniel Chapman	Va.	B.S. 1926, John Brown University	D.C.
Birby, Jane F. Moore A.B. 1941, Central State College, Okla.	D.C.	Blackwell, Ruth Elizabeth	Tex.
Bird, Elizabeth Simpson A.B. 1944, Vassar College	N.J.	Blaffer, Joyce Campbell	D.C.
Birgelson, Arthur B.S. 1922, University of Maine	D.C.	Blafum, Ross	D.C.
Birge, Ann Workman	D.C.	Blakem, Howard	D.C.
Bischoff, Thelma Loraine	D.C.	Blaine, John Robert	Idaho
Bishop, Beverly Elaine	Ill.	Blaine, Patricia Angelo	D.C.
Bisinski, Chester Frank	D.C.	Blair, Alpha	Ky.
Biller, Browne Carolyn	D.C.	Blair, Eunice Pearl	Md.
Bilham, Genevieve Lee	D.C.	Blair, Marion Evelyn A.B. 1941, College of William and Mary	N.Y.
Bilham, Charles M.	Ill.	Blair, Shirley Anne	Va.
Bilham, Henry Edmund A.B. 1938, Yale University	Ohio	Blake, Carlton Earlon	Mass.
Billemeyer, Joseph Addison, Jr. A.B. 1941, Washington and Lee University	Va.	Blake, Ella Rhea	D.C.
Billips, William Milton, Jr.	Va.	Blake, Geraldine A.	Conn.
Billy, Lillian Elizabeth	D.C.	Blake, Isabel Rose	Mass.
Bilong, Robert Francis	Va.	Blake, John William	D.C.
Bing, Laura Torrey	D.C.	Blake, Louis Ann	D.C.
Binger, Mary Jane A.B. 1941, Florida State College for Women	W.Va.	Blake, Mary Geraldine	La.
Binz, Mary Jane	Mo.	Blake, Mary Patricia	D.C.
Bird, Evelyn Rhea	Va.	Blakely, Elizabeth Josephine	Idaho
Bird, Mary Kern	D.C.	Blakemore, Lemuel Anthony B.S. 1924, University of Minnesota	Conn.
Bird, James Frederick	D.C.	Blakenore, William Humbert	Va.
Bird, Ray Dante	D.C.	Blanchard, Donald David	D.C.
Bird, William Lawrence	D.C.	Blanchard, Edward Payson, Jr.	Va.
Birdsall, Sally May A.B. 1946, University of Iowa	Iowa	Blanchett, Jean	D.C.
Birdsell, John Edmund A.B. 1945, The George Washington University	D.C.	Blatt, Barbara Josephine	N.Y.
Birge, Louis Isadore	La.	Blank, Gerald Issat	D.C.
Birkbeck, Merton Marce	D.C.	Blanken, Marilyn Louise	Ill.
Birkham, Eugene Albert	Ohio	Blanchard, Kenneth Floyd	Va.
Birby, Donald Mayo	Iowa	Blanton, Joseph Warren	Va.
Birby, Bruce Clay B.B.A. 1940, University of Chattanooga	Tenn.	Blanchard, Paul Arthur	Va.
Bishop, Iris Mildred	Mo.	Blaschak, Veronica Martina	Mich.
Bishop, Lucille Elizabeth	Vt.	Blaser, Eunice Mason A.B. 1920, Connecticut College for Women	Md.
Bishop, Mandalee A.B. 1941, Vassar College	Va.	A.M. 1942, Columbia University	
Biskar, Ada	D.C.	Blascher, Barbara Anne	Va.
Biskar, Marvin	D.C.	Blecher, Rose	D.C.
Bison, Henry Joseph, Jr. B.S. 1941, Miami University	Ohio	Bledsoe, Daniel Perrin B.S. 1944, University of Nevada	Nev.
Bisset, Alfred, Jr.	Md.	Blevins, Hansel Herbert	D.C.
Bisset, Barbara Joan	D.C.	Blew, Forrest Allen B.S. in M.E. 1917, The George Washington University	Md.
Bisset, Beverly Jane	D.C.	Blickenslager, Ella Mansfield	D.C.
Bitter, Marjorie Mae	Iowa	Black, James Dominic, Jr.	D.C.
Bitter, Bernice Louise	Mich.	Blass, Katharine S. A.B. 1929, Goucher College	D.C.
Bjorklund, Otto Edward	D.C.	A.M. 1934, University of Maryland	
Black, Dorothy D.	Minn.	Blitgen, Elizabeth Peck	Va.
Black, Harvey	Va.	Blitzstein, Ethel	N.Y.
Black, Helen Isabella	La.	Bliven, Charles Watson B.S. M.S. 1936, University of Nebraska	D.C.
Black, Helen Rummell	Md.	Bloch, Henrietta	D.C.
		Bloch, Mary B.	D.C.
		Bloch, Arthur Norman	D.C.
		Black, Burton L.	D.C.
		Black, Rhoda Reba	Va.
		Blodorn, Helen May	Md.
		Blondheim, Dorothy Hudson A.B. 1934, Miami University	N.C.
		Bloom, Howard	Md.
		Bloomberg, Florence I	D.C.
		Bloomfield, Irma Londra	N.Y.



Blough, Glennoirre Ethel	Pa.	Bonfield, Robert Thomas	D.C.
Blough, Hazel Ruth	D.C.	Bonnell, Elwyn Thomas	D.C.
Blount, William George	Ala.	A.B. 1942, Michigan State College	Nev.
Blue, Merle D.	Ind.	Bonner, Marie Anne	D.C.
A.B. 1940, A.M. 1941, Indiana University		Bonneville, Lorraine D.	D.C.
Bluestone, Frances	D.C.	B.S. 1925, University of Wisconsin	D.C.
Blum, Joseph	Va.	Bonwit, Kenneth Stanley	D.C.
B.S. 1940, College of the City of New York		Bonwit, Stuart Eliot	D.C.
Blum, Lester Morris	D.C.	B.F.E. 1945, The George Washington University	N.Y.
B.F.E. 1938, College of the City of New York		Bochever, Louis Charles, Jr.	N.Y.
Blum, Royal	D.C.	A.B. 1941, Cornell University	Md.
Blumberg, Walter James	D.C.	Boake, Barbara Renee	Va.
Blumenfeld, Laurence Mendel	D.C.	Baker, Lewis Albert	Va.
Blumenthal, Francis B.	D.C.	Boone, Olga Christina	
A.B. 1940, University of Michigan	Mich.	B.S. A.M. 1935, University of Maryland	
Blumenthal, Henry Simon, Jr.	D.C.	Boone, Thomas Hood	D.C.
Blumenthal, Violet Smith	D.C.	Boote, Howard Sherry	Md.
Bly, Betsy Ericson	D.C.	B.S. 1936, University of Maryland	D.C.
Bly, Robert Tuthill	W.Va.	Booth, Cornell Dent	Va.
Boatwright, Stanley Garland	Va.	Booth, Mary Virginia Kyle	D.C.
Bobb, Bayard Rockwood	Wash.	Borchardt, Owen Franklin	Va.
Bobel, Allen James	Va.	Borcharding, Mary Olive	D.C.
Bobyk, Nicholas	D.C.	Borchers, Verda H.	D.C.
Bochette, Mable Elodia	D.C.	Bordelon, Derrill Josef	D.C.
Bockenck, David M.	N.J.	B.S. 1942, Louisiana State University	D.C.
B.S. in C.E. 1919, Ohio Northern University		Bordelon, LeRoy Joseph	N.Y.
I.L.B. 1928, University of Newark		Borger, Harold Noah	D.C.
I.L.M. 1931, New York University		Born, Frederick William	Md.
Borckoff, Marjorie Lillian	D.C.	Bornefeld, Helen Burns	D.C.
Boddie, Charles Edwin	D.C.	Borrow, Bernard	Va.
Boddie, John Bennett	Ill.	Borror, Barbara Lee	Mich.
Bode, Roy Roland, Jr.	D.C.	Borsos, Lenora Eliza	Md.
Bodinsky, Helen	Pa.	Borthwick, Howard Hall	D.C.
Boeckman, Franklin Patrick	D.C.	Bortnick, Maxine Cecelia	D.C.
Boehlert, Rosemary Smith	D.C.	Bortnick, Ruth	D.C.
A.B. 1939, The George Washington University		Borysko, Emil	D.C.
Boss, Mary Catherine	Pa.	A.B. 1940, Brooklyn College	N.J.
Bosch, Helen Ethel	D.C.	Bosman, John Adrian	
Bosch, Ruth Elinor	D.C.	B.S. 1942, University of Pennsylvania	Md.
Bose, William Carl	Va.	Bosse, Herman Louis	D.C.
B.F.E. 1947, University of Minnesota		Bosse, Tatiana	Va.
Bosan, Patricia Alice	D.C.	Bostater, Sharley Miner	Md.
Bourdas, Betty Dorothea	D.C.	Boston, William Theodore	Va.
Boggs, Gail Everett	D.C.	A.B. 1936, Washington College	
Boggs, Gilmer Glenn	Va.	Bostwick, Dudley Chase	D.C.
Bogomitz, Gordon Daniel	D.C.	A.B. 1937, Amherst College	D.C.
Bohn, Nelson Ranson	D.C.	Borkin, Albert Lloyd	N.Y.
Boss, Jerome King	D.C.	Borkins, Melba	Va.
Bour, Harold Arthur	Fla.	Batford, Frank Reeder, Jr.	D.C.
I.L.B. 1940, John B. Stetson University		Barber, Carter Miller	D.C.
Bouskles, Despina	D.C.	Bauchette, Edward Motte, Jr.	D.C.
Bolen, Arnold Lee	Md.	Baudrein, Lillian Marie	D.C.
A.B. 1937, High Point College		Bautler, Henry Osborne	D.C.
Bolger, William Frederick	D.C.	Brown, Jenny Alice	Md.
Bolton, Clifford Fred	D.C.	Bouquet, Champens Jean Pierre	D.C.
Bolton, Dorothy Pauline	Miss.	Bourne, David Alexander	Va.
Bollar, Isabelle Mary	D.C.	Bourne, Harry Brooks	Md.
B.S. 1944, University of Tennessee		Bove, Josephine Lucille	D.C.
Bollenbacher, Paula	D.C.	Boward, Lawrence Mark	Ark.
Boller, Angelo Domenic	Ill.	Bowdian, Frank Allen	Utah
Bolt, Rae Jeanne	Ky.	Bowen, Verna Sarah	Md.
Bolton, Alexander Nathan II	D.C.	Bowen, Carter M.	
Bolton, Alice Roberta	D.C.	A.B. 1941, The George Washington University	Va.
Bolton, Alice Rolter	Va.	Bowen, David	Va.
B.S. 1942, Madison College		Bowen, John Thomas	Ga.
Beltrick, Walter William	D.C.	A.B. 1939, University of Georgia	Md.
Bomar, Doris Thomas	D.C.	Bowen, Kathleen Patricia	
A.B. 1936, Texas State College for Women		Bowen, Lois Green	La.
		A.B. 1935, American University	Va.
		Bower, Thomas Elsbey, Jr.	
		Bowers, John Lewis	

Bowers, Richard Simpson	D.C.	Brandenburg, Virginia Allen	Ky.
Bowie, Clara Acathia	S.C.	Brandenburger, Elise Ann	Va.
A.B. 1925, Winthrop College		Brandenburg, James William	Md.
Bowie, Frank McK.	D.C.	Brandan, Robert Mead	N.J.
Bowler, John Andrew, Jr.	D.C.	A.B. 1940, Princeton University	
Bowman, Charlotte Josephine	Va.	Bradley, John Curtis	Va.
A.B. 1919, L.L.B. 1942, The George Washington University		Brandon, Edith Marie	Ky.
Box, William Edward	Ala.	Brandon, Gladys Dorrell	Minn.
Boyers, Carl	Md.	Brandt, Jean	D.C.
B.S. 1929, College of the City of New York		Brandt, Walter John	D.C.
Boyd, Charles Thomas	Fla.	Brannen, Reada Bue	Fla.
Boyd, Frances Hand	Va.	Branner, Georgine	N.Y.
A.B. 1912, The George Washington University		Branson, James Taylor	D.C.
Boyd, Frances Porter	Tenn.	Branson, Margaret Elizabeth	D.C.
B.B.A. 1938, University of Chattanooga		Brantley, Walter Frederick	Md.
Boyd, John Edgar, Jr.	Calif.	Braslow, Sylvia Anna	N.Y.
A.B. 1938, University of Colorado		Braslow, Lenore Doryea	D.C.
Boyd, Mary Grace	D.C.	Brasswell, Faye Marie	Mch.
Boyd, Ollie Frances Porter	Tenn.	Bratenahl, Robert Robb	Md.
B.B.A. 1938, University of Chattanooga		A.B. 1942, Randolph College	
Boyd, Stanley Wayne	D.C.	Bratt, Boyce Wendell	Neb.
Boyer, Delos White	D.C.	Branch, Frank Charles	D.C.
Boyer, George Hewitt	Va.	Brown, Clara Louise	D.C.
B.S. 1908, University of Missouri		Brown, John Walter	D.C.
Boyer, Myron Hugh	Calif.	Braver, Arthur	D.C.
B.S. 1936, University of California		Braverman, A. Marvin	D.C.
Boyer, Phyllis Palmer	D.C.	A.B. 1929, Dartmouth College	
Boylan, Mary Agnes	D.C.	L.L.B. 1932, Harvard University	
Boylan, Vincent de Paul	N.Y.	Brauer, Mary Frances	Md.
B.B.A. 1936, Manhattan College		Bray, William Harry	R.I.
Boyle, Anthony Frances	N.Y.	A.M. 1936, Oberlin College	
Boyle, Betty Jean	W.Va.	Breed, Marvin Allen	D.C.
Boyle, Louis III	D.C.	B.S. 1935, Bradley Polytechnic Institute	
Boyle, Marcan Dolores	Ind.	Breher, Harry Alvah	D.C.
Boyle, Martha Emma Ott	Va.	A.B. 1914, Queens College	
Boyle, Peter Joseph	Minn.	Braham, Theodore Lewis	D.C.
Boyle, Robert William	Md.	Breitenbach, Derek Siegfried, Jr.	D.C.
Boyt, Florence Kathryn	Pa.	Brethart, Henrietta Parker	Va.
Bozeman, Ruth Mary	D.C.	Breuning, Amelia	N.D.
Bozof, Harry	Tenn.	Breland, Ora Lee	Miss.
Brazel, Robert	Tenn.	B.S. 1939, Mississippi State Teachers College	
Braa, Lillian Marie	Minn.	Brenale, George Robert	D.C.
Brackett, Laetle	Md.	A.B. 1945, Duke University	
A.B. 1943, Goucher College		Brennan, George Francis	Ill.
Braden, Robert Ashley	D.C.	Brennan, John Wright	D.C.
Bradford, Gordon Bursbank	Md.	A.B. 1943, Catholic University of America	
Bradford, William Robert	Md.	Brennan, Patricia Marie	D.C.
Bradlin, John Leroy, Jr.	N.J.	Brennan, Dorothy Faye	D.C.
Bradley, Daniel Greene	Ala.	Brentlinger, John Weeks	Va.
Brady, Homer Fisher	Va.	Bresler, Chase	D.C.
Bradley, Hilary Patrick	Va.	Bresler, Adele Cecelia	D.C.
Bradley, John Curtis	Va.	Brown, Maria Regina Jordao	D.C.
Bradley, Lawrence DuVal, Jr.	Calif.	Brewer, Fannie A. H.	Va.
B.S. 1942, United States Coast Guard Academy		Brenner, Stanley Edwin	D.C.
Bradley, Sally Phelps	D.C.	Brewster, Camellera	Va.
Bradshaw, Nellie Berneice	D.C.	Brewster, Christine K.	Va.
Bradt, Joseph V.	Va.	A.B. 1928, Emory and Henry College	
Brady, Donald Blair	Va.	Brewster, Janet B.	D.C.
B.S. in B.A. 1917, University of Arkansas		Brown, Edward Christopher	D.C.
Brady, Luther Weldon	Md.	B.S. 1942, St. Francis College	
Bragan, Richard Larry	D.C.	Brail, Robert Almeda	Ohio
Brandan, Edith Marie	Ky.	Brail, Rita Esther	Ohio
Brannon, Alvin	D.C.	Brakes, Mary Patricia	D.C.
Brannan, Edward Francis	Md.	Brademas, L. J.	Va.
Branch, Martha Kathryn	Tex.	Brasel, Eleanor Marie	N.J.
Brandall, Betty Ridings	D.C.	B.S. in H.E. 1941, Drexel Institute of Tech. Ed.	
Brandenberger, Helen Edith	D.C.	Brecker, Katrina Elizabeth	Va.
		Breider, Frances G. Fred	Ky.
		Brigham, Rebecca Elijah	D.C.
		Bright, Aubrey Allen	Va.

Brimley, Ralph F. W. B.S. 1928, North Carolina State College A.M. 1940, University of North Carolina	N.C.	Brown, Anne Brand Brown, Arthur Charles Brown, Barbara Marion Brown, Betty Gene Brown, Claire Marie Brown, Craig Franklin Brown, Elizabeth Patterson B.S.E. 1933, University of Arizona	D.C. Va. Md. W.Va. Va. D.C. Ariz.
Brinson, Edith B.S. 1918, Sam Houston State Teachers College	Tex.	Brown, Ella Marie Brown, Elsie Mio Brown, George Edward B.Ed. 1915, Teachers College, Eau Claire, Wis.	D.C. D.C. Va.
Brish, William Murray A.B. 1928, Franklin and Marshall College A.M. 1932, Columbia University	Md.	M.S. 1941, University of Colorado	D.C.
Brister, Lois Elaine Bristol, Ethel Cleo Bristow, Joseph Quayle Britt, John Francis Xavier A.B. 1942, The George Washington University	D.C. Colo. Va. N.Y.	Brown, Gordon Francis Brown, Helen Emily Brown, Hollis Booth Brown, Hugh Ned B.S. in Ed. 1941, Cedarville College	D.C. D.C. D.C. Ohio
Britt, Severine H. Britt, William Gaynor Brittain, Glenn Britton, Glynn Artis Britton, Helen Harriet B.M. in Ed. 1942, University of Nebraska	Va. Tex. D.C. Mo. Nebr.	Brown, James Edsel Brown, James Grady Brown, Jean Marie Brown, Jeannette Rita Brown, Keith Sullen Brown, Kenneth Arthur Brown, Kenneth L. Brown, Laurence Ray Brown, Lawrence Edmund Brown, Leonard Ralph Brown, Leslie Eugene Brown, Lois May Brown, Mary Pillsbury A.B. 1945, Smith College	Ky. Miss. Pa. D.C. Va. D.C. N.Y. D.C. N.H.
Broadus, Betty May Brobeck, George Kenneth, Jr. Broberg, Ralph Frank B.S.E. 1942, University of Michigan	Md. Md. Md.	Brown, Maude D. Brown, McTeer Brown, Oril Irene B.S. in J. 1930, Northwestern University	Okl. S.C. D.C.
Broche, Elliott Lewis Brock, John Roy A.B. 1941, The George Washington University	D.C. Okla.	Brown, Paul Ambrose Brown, Phillip Edward Brown, Raymond B.S. 1939, State Teachers College Brown, Richard Allen Brown, Richard Harland A.B. 1942, Columbia University Brown, Robert Alfred Brown, Ruth Caroline A.B. 1941, MacMurray College Brown, Ruth French B.S. 1938, University of Miami	D.C. D.C. D.C. D.C. D.C. N.Y. D.C. D.C. Fla.
Brock, Xavier Martin Brodbere, Dorothy Brode, Anthony Carroll Brodeur, Albert P., Jr. Broderick, Katherine E. Brodofsky, Irvin Brody, Annette Brody, Herman Brody, Norman Brooks, Joan Elizabeth Broombacker, Nancy Jean A.B. 1944, Marietta College Bromer, Louis Bronaugh, Alfred Taylor, Jr. B.S. in E.E. 1939, The George Washington University	D.C. D.C. D.C. Md. R.I. D.C. D.C. D.C. D.C. D.C. D.C. N.Y. D.C.	Brown, Stuart Hardson Brown, Virginia Geraldine Brown, Vivian Bauer Browne, Daisy Marie Brownschultz, William Walter Brownson, Joseph Willmott, Jr. A.B. 1940, University of Alabama Browlee, Max H. A.B. 1937, Fort Hays Kansas State College	Cali. D.C. D.C. Ala. Pa. N.I. Kans.
Bronczyle, Helen Theresa Brosson, Marie A. Brouce, Antonio Chaves Brook, Helen Constance Brooker, Bruce N. Brooks, Addie Lou A.B. 1921, Shorter College A.M. 1932, Vanderbilt University	N.Y. D.C. Mich. N.Y. Tenn.	Browning, William III Bry, Anne Norton Bryles, Winnie Faye Browe, Joseph Robert Brenckhauser, Phyllis Brennecke, Ona Mildred Brueger, Vernon Walter B.S. in Ed. 1936, University of South Dakota	D.C. Va. Tenn. Md. D.C. D.C. S.D.
Brooks, Betty Stewart Brooks, Carol Brooks, Charles Andrew A.B. 1930, Berea College Brooks, Charles Kenneth Brooks, Essmer Brooks, Gladys Marie Brooks, Kathleen Burch Brooks, William Bernard, Jr. Brooke, Martin F. B.S. in E.E. 1931, Cooper Union	D.C. D.C. Ky. N.Y. Mass. N.C. D.C. D.C. N.J.	Brugman, Dino Anthony Brum, Edith Helen Bruster, Thomas James B.S. in M.E. 1941, Mississippi State College	D.C. Va. Miss.
Brosseau, Reynald George L.L.B. 1911, Northeastern University Brougher, John Frederick A.B. 1926, A.M. 1929, Columbia University Brown, Agnes Marie	Vt. Va. D.C.		



Students Registered

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Brumbaugh, Vere Samuel	D.C.	Bulatkin, Natalie	D.C.
Brummer, Eleonora	N.Y.	Bulger, George Alexander	Ohio
Brundage, Dean Edward	Va.	Bulger, William Loboell, Jr.	D.C.
Brundi, Jean	D.C.	Bulcher, Nina Mae	Va.
Brunet, Maria Luisa	D.C.	Bulhard, Aldine Margaret	N.C.
Brunette, Dorothy Jean	D.C.	Bullard, Alma Mae	N.C.
Bruning, Armin Menzel	Va.	Bullard, George Robert	Fla.
Brunner, Helen Jean	D.C.	Bullard, Leslie Graues, Jr.	N.C.
A.B. 1932, A.M. 1934, The George Washington University		Bullard, Robert Edmund	Md.
Brunner, Mabel T.	Ohio	Bullivant, Drexel Davis	Fla.
Brunner, Ruth H.	D.C.	Bullock, Howard	Ill.
B.S. 1941, The George Washington University		Bumgardner, Edward Larrick	Va.
Bruneson, Dalton Verlaine	D.C.	Bumgarner, Beverly Claire	D.C.
B.S. in Chem. Eng. 1938, Purdue University		Bumgarner, Walter Fredrick	D.C.
Brus, Frayconi Gabrielle	Belgium	Bunn, Helen Foster	D.C.
Brush, John Francis	Maine	Busak, Betty	D.C.
B.S. in Ed. 1940, Gorham Teachers College		Buranen, Wilbert Henry	Md.
Brutto, Carmelea Marie	W.Va.	Buratti, Ralph J.	Va.
Brutto, Josephine Marie	W.Va.	Burback, Alice Margaret	D.C.
Bruyere, Paul Tulane	Md.	Burch, Charles Augustus	Md.
A.B. 1930, Princeton University		B.S. 1917, United States Naval Academy	
A.M. 1934, University of Chicago		Burch, Gordon Henry	Mich.
M.P.H. 1942, Yale University		Burcham, Robert Poplin	D.C.
Bryant, Beatrice Marie	Va.	Burchard, Elizabeth Manod	N.C.
Bryant, Clarence Richard	Va.	A.B. 1935, Meredith College	
Bryant, Mary Lucille	Ala.	Burchill, Evelyn Claire	N.J.
Bryant, Robert James	N.Y.	Burd, Louise Luette	Ga.
A.B. 1919, Dartmouth College		Burdick, William Fraser	D.C.
Bryant, Roberta Boyd	Va.	Burel, Louise Martina	Pa.
Bubb, Mary Cranford	Va.	Burgart, Wilfred William	Pa.
Bubonovich, Nick, Jr.	Pa.	Burgess, Andrew Judson	N.C.
Buchanan, Lucille Jeannette	D.C.	Burgess, Eileen Elizabeth	Mo.
A.B. 1926, Swarthmore College		Burgess, James Thomas	D.C.
Buchanan, Thomas Ryland	Md.	Burgess, Laurie Reid	D.C.
Buchner, Arthur	N.Y.	B.S. 1942, College of William and Mary	
Buchman, Abraham Martin	D.C.	B.S. 1943, New York University	
A.B. 1945, New York University		Burgess, Margaret McKenzie	D.C.
L.L.B. 1918, J.S.D. 1939, St. Lawrence University		Burgess, Roberta Jane	Wash.
Buck, George Henry Francis	Mass.	Burgess, Suzanne	Mass.
Buck, Lucille	Va.	Burke, Barbara Carroll	Va.
Buckberg, Albert	D.C.	Burke, James Franklin	Ark.
Bucklew, Dorothy Marie	Ark.	Burke, James Lansing, Jr.	Md.
Buckler, Geraldine L.	D.C.	Burke, Jeanne Lois	Wis.
Buckler, James Leonard	D.C.	A.B. 1944, Laurence College	
A.B. 1944, The George Washington University		Burke, John Edward	Ill.
Buckler, Leone Helen	Va.	B.S. 1934, Indiana University	
Bucklew, Geraldine Louise	D.C.	Burke, Jordan Muse	D.C.
Buckley, Margaret Ellen	D.C.	Burke, Margaret Elizabeth	N.J.
Buckley, Marion	D.C.	Burke, Marguerite C.	Kans.
Buckley, Thomas Edward	D.C.	A.B. 1937, A.M. 1938, University of Kansas	
Buckley, Vincent Lansdale	D.C.	Burke, Natalie Mary	N.Y.
Buckley, William Francis	Md.	Burke, Vivian Tobi	Md.
Buckman, Elsie	D.C.	Burkhardt, Grace Marie	Pa.
Buckner, Thaddeus Gaston, Jr.	W.Va.	Burkholder, Allen Wesley	Pa.
Buckoff, Marjorie Lillian	Fla.	Burkhouse, Elizabeth J.	Pa.
Budsham, David Iule	D.C.	B.S. 1928, Carnegie Institute of Technology	
Budney, Margery Baker	N.I.	Burleson, J. Warren	D.C.
Budney, Stephen	D.C.	Burnett, Genevieve Anna	D.C.
A.B. 1939, Brooklyn College	D.C.	Burham, Mary A.	Iowa
Buege, Emily Josephine	N.Y.	B.S. 1912, Iowa State College	
Buell, Miner Willard, Jr.	Colo.	Burns, Bridget Elizabeth	Pa.
Buell, Norma Louise	Mass.	Burns, Constance Albrecht	Va.
Buflin, Lannes Orodoth	D.C.	A.B. 1931, Mount Holyoke College	
Bugay, Paul E.	Pa.	A.M. 1942, Reem Mawr College	
A.B. 1942, The George Washington University		Burns, Edwin Clapin	D.C.
Buglass, Donald E.	Wis.	Burns, Eleanor Louise	R.I.
		B.S. 1942, Wilson Teachers College	
		Burns, James Patrick, Jr.	D.C.
		Burns, Juanita Mavis	D.C.

Burns, Mildred Emma			
Burns, Velma Irene			
A.B. 1935, Oklahoma College for Women			
Burns, William Robins			
Burrow, Harry	N.Y.		
Bursley, Barbara Benedict	D.C.		
Bursley, Patricia Elizabeth	Va.		
Burton, Edna Ruth	D.C.		
Burstein, Harold Nathaniel	Miss.		
B.S. 1914, College of the City of New York	D.C.		
Burt, Earl Franklin	Mich.		
Burton, Agnes Jean	D.C.		
Burton, Bonnie	D.C.		
Burton, Gwendolyn Louise	D.C.		
Burton, Lockwood Duquesne	D.C.		
Burton, William Miles-Joseph	D.C.		
Buser, Elizabeth Anne	D.C.		
Bush, Aurelia Lyles	D.C.		
Bush, Jeremiah Estell	Va.		
Bush, Laura Joselyn	Va.		
Bush, Margaret Ann	N.C.		
Bush, Orvis Eugene	D.C.		
Bush, Wilbert George	Md.		
Busick, George Cabell	Va.		
A.B. 1941, The George Washington University			
Bussell, Ethel Frances	Mo.		
Busswell, Joan Emily	Md.		
Butcher, Marjill Alice	D.C.		
Butterbaugh, Charles	D.C.		
Butler, Annie Miller	D.C.		
Butler, Eugenia Jefferson	D.C.		
Butler, Harvey Darrow	Va.		
B.S. in Ed. 1930, State Teachers College, Buffalo, N. Y.			
Butler, Jeanne Ann	D.C.		
Butler, John Merton	Calif.		
B.S. 1929, University of Minnesota			
Butler, LaFollette Robert	Okla.		
Butler, Marian	N.C.		
Butler, Rosemary Katharine	D.C.		
Button, Dale Leon	Kans.		
Butta, Calvin Lewis	D.C.		
Buxbaum, Phyllis Leon	D.C.		
Buxton, Edward Nelson	Va.		
Buxton, Leonard Josiah	Md.		
Buzzell, Helen Rebecca	Ill.		
Bwell, Douglas Macleod	D.C.		
Byer, Albert I.	D.C.		
B.S. 1921, University of Chicago			
M.S. 1913, De Paul University			
Byer, Herman Bailey	D.C.		
Byfield, Edward Bartlett	D.C.		
Byrd, Harold Edward	W.Va.		
Burns, Chester James	N.Y.		
C			
Cabacera, Flavio Eustacio	D.C.		
Cable, Bertha	Okla.		
Caldwell, Albert Helale	D.C.		
Cammerer, Alice B.	D.C.		
B.S. 1918, The George Washington University	Oreg.		
Caffee, Franklin Brockway	Va.		
B.S. 1934, University of California			
Calfritz, Isabel	D.C.		
Calfritz, William Norman	D.C.		
Cable, Lancelot C.	D.C.		
Cahill, William Todd	D.C.		
Cahoon, Lynda Lee	Va.		
Cailliau, Bernard	France		
Caillouette, Mildred Elaine	Ill.		
Cain, Betty Jean	Ark.		
Cain, George Stephen	D.C.		
Cain, Leighton Aubrey	N.C.		
Cairns, Edna Marie	N.J.		
B.S. 1940, New Jersey State Teachers College			
Cajolet, Madelyn Delia	Mass.		
Caldwell, Callis Archibald	Md.		
Caldwell, Dan Hale	D.C.		
B.S. 1941, Virginia Polytechnic Institute			
Caldwell, Esther Schafer	Md.		
Caldwell, John Merrel	Tex.		
Caldwell, Randolph Foster, Jr.	Tenn.		
Calhoun, Edward Joseph	D.C.		
A.B. 1917, The George Washington University			
Calio, Joseph Anthony	Pa.		
Calkins, Nelson Miles	Mass.		
B.S. in M.E. 1941, Worcester Polytechnic Institute			
Call, Carrie Ruth	Tenn.		
Callahan, Ada Ruth Scofield	D.C.		
Callahan, Catherine Dodson	D.C.		
Callahan, Martha Anne	Ohio		
Callahan, Mary Jane	Ohio		
Callahan, Patricia Ann	Utah		
Callahan, Sterling Grundy			
A.B. 1937, Brigham Young University			
Callander, Ann Deeley	Md.		
Callander, Chester Lee	Calif.		
A.B. 1940, University of California			
Callaway, Hilda Wills	W.Va.		
Callahan, Leonard Milton	Ill.		
Callahan, Ilse Ruth	D.C.		
Callahan, Susan Eva	D.C.		
Callan, John Edgar	D.C.		
Callan, John Henry	Va.		
Callaway, Patricia Ann	D.C.		
Callaway, William Basil	D.C.		
Calamiris, Willie Donald	D.C.		
Calder, Mary Schindler	D.C.		
Calvert, Carolyn Anne	D.C.		
Calvert, Margaret Lamas	D.C.		
Calvert, Mary Muckler	D.C.		
Calvert, Lora	D.C.		
Calvetti, Joseph Francis	D.C.		
Calvo, Mary Albert	D.C.		
Candler, Carlo Ghislain	D.C.		
Cameron, Archie Enos	D.C.		
Cameron, Mary Ellen	D.C.		
Cameron, Margaret Ann	Va.		
Camp, Robert Clifford	Va.		
B.S. in E.E. 1930, Purdue University			
Campbell, Bernard Christopher	D.C.		
Campbell, Carolyn	Okla.		
Campbell, Catherine Lee	N.Y.		
Campbell, Charles Edward	D.C.		
Campbell, Charles Frederick	Va.		
Campbell, David Curtis	D.C.		
Campbell, Doris Lorraine	Pa.		
Campbell, Frank	Va.		
A.B. 1929, Lynchburg College			
Campbell, John Robert	D.C.		
Campbell, Katherine Anne	Mass.		
A.B. 1917, Vassar College			
Campbell, Mildred Ann	D.C.		
Campbell, Patricia Margaret	D.C.		
Campbell, Ruth Burch	Fla.		
Campbell, Wason Gardner	Tenn.		
B.S. in B.A. 1941, University of Tennessee			

Campbell, Wendell Wallace	Va.	Carten, Leo A.	Va.
Campbell, William Dean	D.C.	B.S. 1942, University of Maryland	
Campion, Harold Joseph	Iowa	LL.B. 1942, The George Washington	
Campo, Victor Charles	D.C.	University	
Campos, Roberto de Oliveira	D.C.	Carter, Betty J.	Pa.
Canavan, Edward John	D.C.	Carter, Dorothy G.	Ohio
Cannata, Carmelo Charles	Va.	Carter, Evelyn Mae	Md.
Canney, William Molyneux	D.C.	Carter, Fern	Ky.
Cannon, Florence Leiken	Conn.	Carter, George Washington	Ohio
Cannon, Gerald	D.C.	Carter, Mabel Arnell	Tenn.
Cannon, John Andrew	Md.	Carter, Marian	D.C.
Cannon, Mary Margaret	Md.	Carter, Marilyn	Md.
Cannon, Walter Robert	D.C.	Carter, Robert Barnhill	Md.
Cantin, Madeline R.	D.C.	Carter, William R.	D.C.
Cantrell, Jimmy Jean	D.C.	B.S. 1932, Virginia Polytechnic In-	
Cantrell, Lawson James, Jr.	D.C.	stitute	
Cape, Nancy Fitzgerald	Md.	Cartin, Thomas Joseph	N.Y.
Caplan, Dorothy Hulda	D.C.	Casabian, Leo Thomas, Jr.	Va.
Caplan, Leon Sandler	D.C.	Casasias, Aida	P.R.
Capon, Charles Orval	Va.	Casanova, Jean Otilia	D.C.
Capps, Emmy Lou	D.C.	Case, Sarah Ann	D.C.
Capps, Jackie Roper	D.C.	Casey, Carol Mae	Minn.
Capretti, Gloria	Pa.	Casey, Ernest Raymond, Jr.	Wyo.
Cardinale, Vincent Theodore	Calif.	B.S. 1943, University of Wyoming	
Cardoso, Ivan Espirito Santo	D.C.	M.D. 1945, The George Washington	
Carey, Polly Etta Florelle	D.C.	University	
Cargile, Louis Clare, Jr.	Ark.	Cash, Harvey J.	D.C.
A.B. 1942, Dartmouth College		Cash, James Barrett, Jr.	Ark.
Carignan, Lucille Stitt	D.C.	Cashman, Robert William	D.C.
A.B. 1939, Ohio State University		Caskie, Georgette Madeleine	D.C.
Carl, Alma Virginia	D.C.	Caskie, Virginia Gregory	D.C.
Carl, Henry Jean	D.C.	Cason, James H.	La.
Catland, Eugene	N.C.	Cason, Vivian Jamie	Fla.
Carlin, Charles Creighton	D.C.	Cason, Adele	Pa.
Carlin, John Francis	Pa.	Cass, Richard Sherwood	D.C.
Carlson, Bertha	Mo.	Cassidy, Mary Eloise	Md.
B.S. 1930, Columbia University		Casselberry, Janet Lorraine	Ohio
Carlson, David Jennings	Va.	Cassens, Marion Kathryn	Ill.
Carlson, Howard Kenneth	Ohio	Cassidy, Ellsworth Scott	Va.
Carlson, Jeanne Louise	Ill.	Cassidy, Thomas Richard	Ky.
Carlson, Mary Alida	Md.	Castleman, Betty	D.C.
Carlson, William Fredrick	Ill.	Catalde, Nancy Janet	Conn.
B.S. in Chem. Eng. 1943, University		B.Ed. 1940, New Haven State Teachers	
of Illinois		College	
Carlstedt, Clifford	Minn.	Cathro, Thelma Ruth	D.C.
A.B. 1944, The George Washington		Caton, Helene Vinson	W.Va.
University		A.B. 1945, Marshall College	
Carmack, Juanita Vernon	Va.	Caton, Lucille	Mass.
Carman, Lois Estelle	Va.	Cattano, Marie Luise	N.Y.
Carnes, Raymond Eugene	Md.	LL.B. 1944, Fordham University	
Casow, Melicent Madeline	Md.	Caulfield, Samuel Joseph	N.Y.
Carpenter, Gladys Rosemary	Fla.	Cantley, Randolph	Calif.
Carpenter, Marie Long	Ark.	A.B. 1920, Cornell University	
Carpenter, Marie Lynette	Colo.	Cavallaro, Peter Julius	Conn.
Carpenter, Thomas Kinsey, Jr.	Del.	Cavanagh, John Edward	Oreg.
Carr, Frank Edward, Jr.	D.C.	A.B. 1941, University of Oregon	
Carr, Frank Patrick, Jr.	D.C.	Cavanagh, Joseph Thomas	D.C.
Carr, Joseph Robert	Md.	Cave, Betty Patton	N.C.
B.S. 1944, University of Pittsburgh		Cave, Margaret	D.C.
Carr, Mary Grace	Mass.	A.B. 1943, The George Washington	
Carrahino, Joseph Dominic	Mass.	University	
B.S. in M.E. 1944, Worcester Poly-		Cefaratti, Donald N., Jr.	Pa.
technic Institution		A.B. 1940, University of Pittsburgh	
Carrasquillo, Ana	P.R.	Cela, Marlene Sherrell	Calif.
Carraway, Harold Levin	S.C.	Celi, Anne	Mich.
Carroll, Dorcas Ophelia	N.C.	Cernamie, Anthony Dominic	Ohio
Carroll, Mary Josephine	Tenn.	Cerrano, Rosalind R.	D.C.
A.B. 1911, Maryville College		Cerr, N. La. Jr.	Ohio
Carroll, William Robert	Conn.	A.B. 1947, Western Reserve Uni-	
Carry, Robert John	D.C.	versity	
Carson, Ruth Pendleton	Md.	Cervacka, Charles	Czechoslovakia
A.B. 1943, University of Maryland		Chaconas, John James	Md.
		Chacos, Anthony	Va.
		Chacos, Maria George	D.C.



Chaiken, Bernard	N.Y.	Chen, Jeannette Tung-Yu	D.C.
B.S. 1940, College of the City of New York		A.B. 1944, Manchester College	D.C.
Chakeris, Pauline	D.C.	Chen, Ting Yen	D.C.
Chamberlain, Thomas W.	Mo.	A.B. 1941, National Sun Yat-sen University, China	
Chamberlin, Jack Stewart	Va.	Chen, Yih	D.C.
Chambers, Jay Lee, Jr.	D.C.	Cheney, Eugenia Anne	D.C.
Chambers, Richmond Duvall	D.C.	Cheney, Ruth Kellogg	D.C.
Chambliss, Delha Pope	D.C.	A.B. 1945, Oberlin College	
B.S. 1938, Virginia State Teachers College, Farmville		Cheng, Pa Chang	Md.
Chambrea, Robert Andrew	D.C.	Chenoweth, Elmer Edsworth	Pa.
Champone, Mildred M.	Ohio	Chernosky, Edwin J.	Tex.
Champlin, Mary Margaret	Va.	Cherrenak, John	Pa.
Champlin, Ellis Earl	Md.	B.S. in E.E., Carnegie Institute of Technology	
A.B. 1942, University of Nebraska		Cherry, Martha Louise	D.C.
Chanaka, Margaret Andrea	D.C.	Cherry, Mima Canton	D.C.
Chance, Walter Russell, Jr.	Md.	Cherry, Ruth Virginia	D.C.
A.B. 1948, St. John's College		A.B. 1934, Indiana Central College	D.C.
Chandler, Herbert George	Nebr.	Cherry, William J.	D.C.
Chandler, James Greenough	N.H.	A.B. 1924, Presbyterian College	
A.B. 1942, Pomona College		A.M. 1938, Northwestern University	D.C.
Chandler, Lawrence Franklin	Nebr.	Chertock, George	
Chandler, Lawrence Urban	N.C.	B.S. 1939, College of the City of New York	
Chang, Augusta Tai-Hao	China	A.M. 1945, The George Washington University	Pa.
Chap, Gertrude Estelle	D.C.	Chertok, Leonard	D.C.
Chapin, Lewis Mulford	D.C.	Chesivoir, Evelyn R	D.C.
Chapman, Betty Jeanne	Va.	Chestnut, Dorothy Mary	D.C.
Chapman, Clifton Boyd	Va.	Chew, Ethel	Calif.
Chapman, David Graham	Ga.	A.B. 1944, University of California at Los Angeles	D.C.
Chapman, Dorothy Mae	Va.	Chewning, Mary Mitchell	D.C.
Chapman, Patricia Williams	D.C.	Chesovsky, Miriam Charlotte	N.Y.
Chappell, Elizabeth McGaw	D.C.	Child, Ralph Grassing	
Chappell, Ellen Caroline	Mich.	A.B. 1941, Hofstra College	Va.
Chappell, Louis Calvin	Mich.	Childs, George Oliver	D.C.
A.B. 1937, Western Michigan College of Education		Childs, Nancy Sherrard	D.C.
A.M. 1938, University of Michigan		Chin, Tin Fook	D.C.
Chapper, Frank Morris	D.C.	Ching, Evelyn Lucille	D.C.
Chapter, John Bray	Maine	Chinn, Macar Violet	(Chi)
Charles, Anita Sophia	Md.	Chin, Hsiao Tsen	China
Charles, Arbelia Mae	Va.	B.S. 1939, Tsing-Hua University, China	
B.S. in Ed. 1944, Mary Washington College		Chow, Beltine	D.C.
Charles, Jessalynne Lorraine	D.C.	Chow, Shun Fu	China
Charles, William Brandt	Ohio	B.S. 1928, University of Shanghai	China
Charrier, James William	Idaho	Chow, Tai Lee	China
A.B. 1945, The George Washington University		Chowansky, John	Pa.
Chase, Dorothy W.	Va.	Christlaw, John Lawrence	Wis.
B.S. 1930, Kansas State University		A.B. 1941, University of Wisconsin	Calif.
Chase, George	D.C.	Christensen, Otto Robert	
Chase, Shirleyanne	Ill.	A.B. 1940, University of California	Va.
Chase, Shirley Elaine	Va.	Christenson, Althea Marion	
Chasen, Irving Lee	D.C.	A.B. 1927, University of Wisconsin	
Chason, Aubrey Thelman, Jr.	Va.	A.M. 1936, University of Chicago	Pa.
Chassan, Jacob B.	D.C.	Christenson, Richard Malcolm	
B.S. 1939, College of the City of New York		A.B. 1943, Bucknell University	R.I.
Chatham, Elmer Albert	Va.	Christensen, Etta Elizabeth	D.C.
Chatman, Marie	Va.	B.S. in Ed. 1937, Boston University	
Chavez, Gabriel	Tex.	Christie, Alexander Knox	Md.
Chavez, Maria Gloria	D.C.	B.S. 1940, New York University	
Chavez, Mary Armijo	N.M.	Christie, Mollie Waters	
Chavez, John Santos	D.C.	A.B. 1948, College of William and Mary	D.C.
Ceastham, Thomas Pope	D.C.	Christie, Neva Marie	Ohio
B.S. 1943, United States Coast Guard Academy		Christman, Elizabeth	
Checchia, Rocchina	D.C.	A.B. 1939, Hiram College	
A.B. in Ed. 1944, The George Washington University		B.S. in L.S. 1940, Western Reserve University	D.C.
Cheesman, George Leroy	N.J.	Christoph, Kathryn Helen	Va.
Cheever, Olivia Thorndike	Mass.	Christopher, Lawrence Cornell	

# Students Registered

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Christopherson, Olaf Warren	Minn.	Clarke, Leroy Franklin	Va.
Christy, Rita Mary	Va.	Clements, Douglas William	Va.
Chu, Phyllis Shu-Yuan	D.C.	Ph.M. 1940, University of Wisconsin	
A.B. 1938, Yenching University, China		Clauson, Peter Carroll	D.C.
Chu, Sheng Hsu	D.C.	Clay, Edna Lyllian	Va.
LL.B. 1934, Soochow University, China		A.B. 1921, Tulane University of Louisiana	
Chuba, Joseph Valentine	N.J.	Clayman, Betty Jean	D.C.
Chudzik, John Stephen	D.C.	Clayman, Shirley Belle	D.C.
Chistik, Eugene Edwin	Minn.	Claxton, Paul G.	D.C.
Church, Abiah Adelbert	Fla.	Claxton, Rene Lowell	Ill.
Church, Frederick Lewis, Jr.	Va.	Claxton, Sabelle White	Mass.
B.S. 1943, American University		Clearwater, Charlotte James	D.C.
Church, Jessica Peel	D.C.	Clearwater, Mary Elizabeth	D.C.
Church, John	Mid.	Clee, Thomas Sperine Jenny	D.C.
Church, Theresa Marie	D.C.	Clegg, Owen Wood	Va.
Churton, Frank	D.C.	Clegg, Eleanor Standish	Va.
Churup, Inge	D.C.	Clemens, Susan E.	D.C.
Civatte, Alice	D.C.	B.S. 1943, South Dakota State College	
Civatochi, Eva Rita	Pa.	Clements, Dorothy R.	Va.
Cicotta, Mike Anthony	Ohio	Clements, Frances Brown	D.C.
Cinatti, William Ralph	N.J.	Clements, Samuel Eugene	Conn.
Cioth, John Joseph	N.Y.	B.S. 1935, M.S. in Eng. 1938, Yale University	
Ciperson, William Louis	D.C.	Clepper, Emily	Tenn.
Cisin, Ira Hubert	N.Y.	Clepper, Jane Farr	Tenn.
B.S. 1939, New York University		B.S. in Com. 1941, University of Georgia	
Cissel, Joyce Dawn	D.C.	Clewlow, Carl William	D.C.
Cissel, Margaret	Mid.	Cliu, Benjamin Archibald	N.C.
Citak, Eleanor Dorothy	Ohio	A.B. 1941, Duke University	
Clatnuck, Stephen	D.C.	Clifford, Alfred Hoblitzelle	Calif.
Clancy, Marcella Jean	D.C.	A.B. 1929, Yale University	
Clapp, John Murray, Jr.	Va.	Ph.D. 1933, California Institute of Technology	
Clark, Anne MacFarlane	Fla.	Clift, Robert Morris	Tex.
Clark, Belva Elaine	Va.	Clifton, Guy Parker	D.C.
Clark, Bradley Linthicum	Mid.	Climpson, Harley Ronald	Ill.
Clark, Catherine Elizabeth	Va.	LL.B. 1940, Washington College of Law	
Clark, Catherine Muriel	D.C.	Chinkston, Philip	D.C.
Clark, Charles Fulton	Tex.	B.S. 1942, University of Michigan	
A.B. 1940, The George Washington University		Clinton, Robert Glenn	Va.
Clark, Donald Roy	Nebr.	Cloey, Arthur Ruthland, Jr.	D.C.
Clark, Dorothy Jeanne	D.C.	Clore, Edward, Jr.	D.C.
Clark, Frances Evans	D.C.	Clore, Nona	D.C.
A.B. and T.D. 1917, The George Washington University		Clore, Sheila Margaret	Va.
Clark, George Edgar	D.C.	A.B. 1940, Albertus Magnus College	
Clark, Gordon Lovell	Mass.	Clozman, Alvin Melvin	Va.
B.S. in E.E. 1932, Tufts College		Cloud, Paul Vincent	D.C.
Clark, Harry Leon	Va.	Cloud, Velta Katherine	Fla.
Clark, India	Ga.	Claustier, Rita Gertrude	D.C.
Clark, Jane Elizabeth	D.C.	Clover, Eileen Marie	Va.
Clark, John Fulmer, Jr.	Pa.	Clover, James Martin	Va.
B.S. in E.E. 1942, Lehigh University		Cloyd, George Wendell	Va.
Clark, John M.	Mass.	Clark, Opal Margaret	Okla.
Clark, Louise Cardwell	D.C.	Clyons, Wm. Owen	Conn.
Clark, Lyman Ernest	D.C.	Coal, Sylvia Catherine	D.C.
Clark, Margaret	N.Y.	Coates, Frances Elizabeth	D.C.
A.B. 1941, Hunter College		Cobb, Gloria Anne	Mo.
A.M. 1915, American University		Cobb, Mary Laurie	Va.
Clark, Matjorie Ida	Ill.	Cobb, Marys Cleotide	Va.
LL.B. 1941, The George Washington University		Coberly, James Harold	W.Va.
Clark, Martha Ann	Va.	A.B. 1911, A.M. 1913, The George Washington University	
Clark, Robert West	Va.	Cobey, Betty Blake	D.C.
B.S. in E.E. 1916, Norwich University		Coble, Evelyn Louise	N.C.
Clark, Sidney B.	N.Y.	Coburn, William Hoffman	Mont.
Clark, Theodorus Stevens	D.C.	Cochran, Byron McClain	D.C.
Clark, Thomas Staib	D.C.	B.S. 1941, Westchester Teachers College	
Clark, William I.	N.D.	Cochran, Frank Marcus	D.C.
Clarke, Grant Leach	D.C.		
Clarke, Kenneth Gordon	Mid.		
Clarke, Laura Matilda	D.C.		

Cochrane, Dorothy Helen	D.C.	Cole, Raymond Thomas	Mont.
Cockrell, Edward Walter	D.C.	Cole, Wesley Stevenson	Md.
Cocroft, Phyllis Kathryn Capwell	Va.	M.E. 1912, Stevens Institute of Technology	
Coda, Joseph Thomas	Pa.	Coleman, Ernestine Daisy	Mich.
A.B. 1942, University of Scranton		Coleman, Juliet Cox	D.C.
Code, Arthur Dodd	N.Y.	Coleman, Margaret Mary	W.Va.
Coe, Conway Peyton, Jr.	Md.	Coleman, Thomas Joseph	D.C.
Coe, Lillian Irene	D.C.	Collier, Mary Catherine	Ind.
Coe, Robert Stanley	Md.	Collier, Catherine Frances	Fla.
Coe, Ruth H.	D.C.	B.S. 1944, Barry College	
Coen, Oscar Hoffman	D.C.	Collier, Chester Winthrop	Conn.
B.S. 1939, University of Wisconsin		B.S. 1939, Trinity College	
Colleen, Gerald William	Fla.	Collier, Robert Barber	N.Y.
Colley, Charles Shelby, Jr.	Tenn.	Collier, William Edward	Wash.
A.B. 1941, The George Washington University		Collins, Charles Ernest	D.C.
Collin, Don Purnell	D.C.	Collins, Mary Louise	Va.
Collins, James Clyde	D.C.	A.B. 1924, Wesleyan College	
Collins, Anne	Va.	A.M. 1926, Northwestern University	N.C.
Congeshall, Myrtle Edith	D.C.	Collins, Bette Jeanne	D.C.
Congrats, Mary Elizabeth	Pa.	Collins, Clark S.	Va.
Cogswell, Mary Frances	Va.	Collins, Ethel Zimmerman	
Conanen, John H.	Wash.	A.B. 1940, Flon College	D.C.
Cohen, Carol Gloria	N.Y.	Collins, Floyd Osborne, Jr.	D.C.
Cohen, Doris Mae	D.C.	Collins, Garner Fawcett	Calif.
Cohen, Elrud Judah	D.C.	Collins, George Harwood	Md.
Cohen, Ernest Samuel	D.C.	Collins, Helen Monterey	
B.C.E. 1917, College of the City of New York		A.B. 1941, Florida State College for Women	D.C.
Cohen, Frances Virginia	D.C.	Collins, Herbert Leon	D.C.
Cohen, Hestatta	D.C.	Collins, Joseph	S.C.
Cohen, Irving K.	D.C.	Collins, Marian	
A.B. 1943, The George Washington University		A.B. 1929, Winthrop College	D.C.
Cohen, Lillian Minnie	D.C.	Collins, Ruth Mary	D.C.
Cohen, Myrtle	D.C.	Collins, William Timothy	Va.
A.B. 1945, The George Washington University		Collins, Willie Grace	
Cohen, Norman	D.C.	B.S. 1941, Virginia State Teachers College, Farmville	D.C.
Cohen, Sylvia	D.C.	Collins, Wilma Jean	D.C.
Cohen, Sylvia Zisel	D.C.	Coll-Pardo, Isabel Harrison	D.C.
Cohen, Thelma Jess	Ohio	Colmetz, Evelyn Ann	D.C.
A.B. 1932, Cleveland College		Colmetz, Martha Louise	
Cohen, Vivian Alice	D.C.	A.B. 1942, The George Washington University	P.R.
Cohen, William	D.C.	Colin, Gloria Iris	
B.S. 1940, Brooklyn College		A.B. 1941, Marygrove College	D.C.
Cohn, Bernard	N.Y.	Colson, Mary Katherine	Mich.
Cohn, Joseph David	Pa.	Colwell, Donna Marie	Calif.
B.S. 1941, Temple University		Colwell, Millie Matilda	Va.
Cohn, Joseph Robert	Conn.	Comer, Caroline Stewart	Md.
Cohn, Sylvia	D.C.	Comer, Irene Petronilla	Miss.
Comer, Julia Edith	D.C.	Comfort, Jane Frances	
B.S. 1944, Wilson Teachers College		B.S. 1932, Mississippi State College for Women	D.C.
Comer, Mildred Edith	D.C.	Compher, Paul Richard, Jr.	N.H.
Cookias, Nicholas Trephon	D.C.	Compton, Frank John	Md.
A.B. 1941, The George Washington University		Compton, Anne Mary	
Coker, Evans Hairston	Ala.	B.S. 1914, University of Maryland	D.C.
Colard, Elizabeth A.	D.C.	Compton, Joseph C.W.	D.C.
Colbert, Robert Chester	Pa.	Compton, Marion Lee	D.C.
Colbert, Shirley Jane	Pa.	Compton, Milton Edwin, Jr.	Va.
Colborn, Paul Appleby	Md.	Compton, Minnie Charlotte	D.C.
Colburn, Caurine E.	Ill.	Conahan, Mary Avellino	
A.B. 1915, Eureka College		B.S. 1940, Chestnut Hill College	Mont.
Colburn, Jean Elizabeth	D.C.	Conant, James Edwin	
Colby, Royce Virgil	Minn.	B.S. 1940, Montana State College	D.C.
Colclough, Dorothy Cooper	D.C.	Conaty, Thomas James	
Cole, Albert A.	N.Y.	B.S. 1944, University of Notre Dame	D.C.
Cole, Betty Meaker	Ark.	Condee, Bonnie Louell	N.Y.
A.B. 1942, Washington University		Condon, Joseph Francis	
Cole, Edward Elmer	N.J.	A.B. 1940, St. Joseph's College	D.C.
Cole, Harold Benton	Va.	Condriek, Maurice P.	
Cole, Margaret Sexton	D.C.		



Students Registered

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Cone, Bonnie Ethel B.S. 1928, Coker College	S.C.	Cooper, Grace M.	Mich.
A.M. 1941, Duke University		Cooper, Mary Virginia	D.C.
Confrey, Gene Anthony		Cooper, Paul David	D.C.
Conklin, Judith Lenore	N.Y.	A.B. 1939, Western Maryland College	
Conley, Alice Suzanne	D.C.	M.Ed. 1943, University of Maryland	
Conlon, Georgia	D.C.	Cooper, Ruth Thelma	D.C.
Connell, John Gibbs, Jr.	D.C.	Cooper, Sol Saul	D.C.
Connell, Vera Maria	Va.	B.S. in Chem. Eng. 1933, Cooper	
Connellan, Gerald Vincent	D.C.	Union	
Connolly, Betty M.	N.Y.	Cooper, Sophia	D.C.
A.B. 1943, University of Michigan	D.C.	Cooper, Suzanne Taylor	D.C.
Conner, Louise Thompson	Minn.	Cooper, Thomas Schane	D.C.
Connolly, Anne Therese	D.C.	Cooper, Wesley William	Tex.
Connolly, Mary Elizabeth	Mass.	Cooper, William	D.C.
A.B. 1943, Brown University		B.S.S. 1936, M.S.S. 1940, Brooklyn	
Connor, Patrick James	D.C.	College	
Connor, Audrey Marie	D.C.	Cooperman, Bernard Robert	D.C.
A.B. 1945, Trinity College		Cooper, Constance Anne	Ill.
Connor, Barbara Ann	Va.	Cope, Nancy Fitzgerald	Md.
Connor, Bertha Fidler	Md.	Copeland, Alitred	Va.
Connor, Marian	D.C.	Copeland, Barbara Ann	D.C.
Conover, Dean Matthew	Wis.	Coppa, Julia Anne	Va.
Conover, John Woodhull	D.C.	Cotan, Edward Robert	D.C.
A.B. 1904, Washington and Lee		Corbell, Isaac Tunis	Va.
University		Corben, Susan	D.C.
B.S. in E.E. 1915, Massachusetts		Corbett, Winton	N.Y.
Institute of Technology		A.B. 1932, Washburn College	
Conrad, Josephine Anne	D.C.	Corbin, James Lee	D.C.
Conroy, Elaine Virginia	D.C.	Cosman, LaVonne Davidson	N.Y.
Constant, Marguerite Anita	Mass.	Cordano, Robert Gene	D.C.
Contessa, J. Charles	Pa.	Cordell, Jacques Robert	D.C.
Conway, Lawrence Dado	D.C.	Corder, Lucille Dillon	Nebr.
Conway, Margaret Mary	Pa.	Corder, Ruby Lee	D.C.
A.B. 1944, Marywood College		Corderman, Sidney Albert	N.J.
Cook, Charles Francis	Va.	Cordon, Rose	Idaho
Cook, Dorothy Sweet	Va.	Corliss, Violet Haskell	D.C.
A.B. 1931, University of Wisconsin		Cornbrooks, Thomas Bowen	D.C.
Cook, Edward Joseph	Va.	Cornelius, Albert Meent	Nebr.
Cook, Ella L.	D.C.	Cornell, John H.	D.C.
Cook, Eva Charlotte	Md.	Cornell, Samuel Douglas	Va.
A.B. 1938, Western Maryland College		A.B. 1915, Yale University	
Cook, Frances Rowena	Ark.	Cornish, Caroline Laws	Fla.
Cook, Frank William	Md.	Cornish, Charles Clinton	N.Y.
Cook, Helen	D.C.	A.B. 1920, University of Missouri	
Cook, Hildegarda	D.C.	M.B.A. 1921, Harvard University	
Cook, Isidore	N.Y.	Cutash, George Harlan	N.Y.
B.S. 1939, College of the City of		A.B. 1933, A.M. 1939, Cornell	
New York		University	
Cook, John Francis, Jr.	D.C.	Cornish, John Henry	D.C.
Cook, LaRue Llewellyn	D.C.	A.B. 1927, Southwestern College	
Cook, Marianne Louise	D.C.	Coronel, Baltazar	D.C.
Cook, Martha Groff	D.C.	Corrado, Michael Anthony	D.C.
Cook, Robert Eugene	D.C.	Corren, Betty Jane	D.C.
Cook, Robert Tayloe	Ohio	Corridon, Geraldine Antoinette	D.C.
Cook, Walter McQueen	D.C.	A.B. 1935, Syracuse University	
Cook, William Nicholas	Ala.	Corrie, Laura Elizabeth	Iowa
Cooke, Wilma Fay	D.C.	Corriveau, Lucien Paul	Canada
Cooke, Isabella Edith	Okla.	A.B. 1930, University of Montreal	
Cooke, John James	D.C.	Corro, Miguel Antonio	D.C.
Cooke, Mary Lee	D.C.	Corro, Pedro Francisco, Jr.	Panama
Cooke, Thomas Blacknall	D.C.	A.B. 1945, The George Washington	
A.B. 1930, William and Mary College	N.C.	University	
A.B. (Arch) 1937, The George Wash-		Corson, Glenna H.	Maine
ington University		A.B. 1944, The George Washington	
Cooley, Harriett Davis	N.C.	University	
Coon, Douglas	N.Y.	Cortez, Betty	Pa.
Coone, R. V.	N.Y.	Cortez, Aurora De la Garza	Tex.
Cooper, Anna Jane	Ala.	Cory, William Robert	D.C.
Cooper, Betty	Va.	Coxia, Bruno Joseph	N.Y.
Cooper, Charles David	D.C.	Coxsey, Thomas Edward	Mt.
Cooper, Earl Dana	D.C.	Costakis, Ann	D.C.
Cooper, Gladys Beatrice	Va.	Costantini, Mario Michael	D.C.

Costantini, Ralph B.S. in Chem. Eng. 1939, College of the City of New York	N.Y.	Craig, Helen Knox A.B., B.S. in Ed. 1936, Ohio State University	Va.
Costanzo, Frank John	Conn.	Craig, Roy Jackson	D.C.
Costello, Lullia Mae	D.C.	Craig, Willa Maxine	Tenn.
Coster, Doris Bayer A.B. 1942, Columbia University	N.Y.	Craix, William A., Jr.	D.C.
Coster, Douglas Werth A.B. 1942, Columbia University	N.Y.	Crain, Beldon Lowe	D.C.
Cotten, Jack Alphas	D.C.	Cram, Lillian Elsworth	D.C.
Cottini, Martin S., Jr.	D.C.	Crandall, Jane Delight A.B. 1943, The George Washington University	D.C.
Couch, William Morris, Jr. B.S. 1941, Harvard University	D.C.	Crane, Esther Sibel	N.M.
Cougill, Clarence Edward	D.C.	Crane, Grace Beryl	Md.
Coulombe, Eleanor Jones	D.C.	Cranford, Shirley Margaret	D.C.
Coulombe, Raymond Arncound	D.C.	Crankshaw, Harold George B.S. 1928, Carnegie Institute of Technology	D.C.
Coult, May	D.C.	A.M. 1912, Cornell University	
Coulter, Joseph Richard	La.	Cramer, Sarah Abigail	N.J.
Councell, Mary Marcy B.S. in Ed. 1921, Ohio State Uni- versity	Va.	Crapster, Basil Long A.B. 1941, Princeton University	Md.
Council, James Raymond	D.C.	A.M. 1922, Harvard University	
Cound, John James	Va.	Craty, Thomas Dodds	Pa.
Courson, Herman L.	Va.	Crawford, Florence Morrison	D.C.
Courts, Sara Anne	Va.	Crawford, Hinch Bernard	Md.
Cousins, Mary Elizabeth	D.C.	Crawford, James Tracy	Va.
Coviello, Marcel Anthony	D.C.	Crawford, Marian Case	D.C.
Covington, Ellen Eason A.B. 1941, Mississippi State College for Women	Miss.	Crawford, Richard Gordon	Md.
Covington, Hewitt Hays	Va.	Crawford, Ruth Adrienne	D.C.
Covington, Ralph Winfield	Md.	Crawford, Sadi Strussmiller B.S. 1924, Ohio State University	D.C.
Cowen, Zoe	Tenn.	Crawford, William James	D.C.
Cowgill, Mary Estelle	Md.	Cree, Edna M. B.S. 1916, Boston University	
Cowie, George Durno B.M.E. 1942, Clarkson College of Technology	D.C.	C.P.H. 1937, Massachusetts Insti- tute of Technology	Okla.
Cowie, Margaret Helen	Ohio	Creed, Claude Weaver B.S. 1940, Oklahoma Baptist Uni- versity	Pa.
Cox, Chester Elwood, Jr.	D.C.	Creedon, Joseph Cornelius	Va.
Cox, Eleanor Elizabeth	D.C.	Creekmore, Thomas Lee	D.C.
Cox, Frances Mary	Ga.	Cree, Hope	Va.
Cox, Ida May	D.C.	Cremen, William Starr	D.C.
Cox, Jerome Rockhold A.B. 1944, Western Maryland College	Md.	Creswell, Robert Wakefield	Va.
L.L.B. 1923, The George Washington University		Crim, Betty Jane	Va.
Cox, Lewis Calvin, Jr.	N.M.	Crist, Catherine Marie	D.C.
Cox, Martin Edward	N.J.	Crist, William Layton	D.C.
Cox, Mary Winifred A.B. 1940, The George Washington University	Mass.	Cristall, Celia	Md.
Cox, Omer Loraine	Ill.	Crocker, Albert Rudolph B.S. 1916, M.S. 1917, New York University	D.C.
Cox, Tiddie L.	La.	Crockett, Mary Elizabeth	Va.
Cox, William Jackson	Ohio	Crofford, William Newton	Ga.
Crabill, Armina Josephine	Calif.	Croft, Lillian	D.C.
Crabill, Gordon Holmes	D.C.	Croke, Margaret Mary	Pa.
Crabtree, Martha Jane	D.C.	Croll, Florence Keturah	Va.
Craddock, Zella May	D.C.	Cומר, Anna Marie	Va.
Cradlin, William Talbott	Va.	Crone, John Felix A.B. 1917, University of Texas	Md.
Craft, Charles Corbin B.S. 1941, The George Washington University	D.C.	Cronheim, Emily Marie A.B. 1942, L.L.B. 1944, Washington University	Va.
Craft, Katie Lou A.B. 1939, A.M. in Ed. 1939, University of South Carolina	S.C.	Cropp, Elizabeth Burgess	Iowa
Craft, Ruth Willard	Va.	Crosby, Herbert Lee	Md.
Craig, Dwin Richardson	D.C.	Crosley, Margaret Jane	Md.
Craig, Florence Lillian	D.C.	Cross, Margaret Johns A.B. 1938, University of Illinois	Kans.
Craig, George Arthur	Va.	Cross, Thomas Jackson	
Craig, Gladys Goodman A.B. 1928, Madison College	Va.	Crosswhite, Virginia Yvonne A.B. 1943, Municipal University of Wichita	Md.
A.M. 1932, George Peabody College for Teachers		Crothwait, Stanley Wood, Jr.	D.C.
		Croswell, Harry Bennett	

# Students Registered

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Crouch, Donald Wayne A.B. 1940, Colgate University	Md.	Curtis, Lyle S.	Md.
Crow, Catherine Ruth A.B. 1934, Winthrop College	S.C.	Curtis, Wayne Stanley	Nebr.
Crowe, Anne Cecilia		Curtiss, Jeanne	Md.
Crowell, Esther Hannah	D.C.	Cushman, Helen M.	D.C.
Crowell, Margaret	D.C.	B.S. 1935, Texas State College for Women	
Crowell, Thomas Lee, Jr. A.B. 1939, University of North Carolina	N.H. D.C.	Custer, Patricia B.S. 1945, Randolph Macon College	Va.
Croxton, Hardy Winborn A.B. 1943, University of Richmond	D.C.	Cutler, Frederick B.S. in S.S. 1943, College of the City of New York	D.C.
Cruiger, Dorothy		Cutting, Marbelle Frances	D.C.
Cruiger, Flossie Genevieve	D.C.	Czajkowski, Mary Elizabeth	Mass.
Crickshanks, Benjamin C.	Fla.	Czaker, Lydia	N.J.
Crum, Frances May A.B. 1949, Morehead State Teachers College	D.C. Md.		
Crump, George Aubrey, Jr.		D	
Crumacker, Donald Everett	D.C.	Dach, Joseph Dts. of Law 1928, University of Budapest	D.C.
Crumpler, Roland	Tex.		
Crupper, Joseph Lee	N.C.	Daguerre, Elizabeth Middleton	Va.
Cruz, Rafael Manuel	Md.	Daguerre, Leticia Grace	Ind.
Cruzan, Orval Robert B.S. 1937, Oklahoma Agricultural and Mechanical College	D.C. Okla.	Dahl, Celia Blanche A.B. 1942, East Carolina Teachers College	N.C.
Crystal, Frances Hale		Daken, Virginia Lee	W.Va.
Csanady, Sophie A.	N.J.	Dakovich, Anita Lee	Calif.
Cabitt, Donald Wilson	D.C.	Dalbey, Albert Samuel B.S. 1941, United States Military Academy	Mo.
Caccinello, Anthony A.	Md.		
Caddy, Melba Mae	N.Y.	Dale, John Charles	Ind.
Cudlipp, Irene M. B.S. 1926, Johns Hopkins University	Mo. Md.	Dallager, Clarence Wayne	D.C.
Cullier, Doris Havel A.B. 1929, State College of Washington	Wash.	Dallas, John Taylor	D.C.
Culbreth, Jane	Ala.	Dallmeier, Sara Ford	Mo.
Cullen, Lucille S.	Pa.	Dalton, Rea Elizabeth	Va.
Cullen, Marie Annes	N.H.	Dalton, Virginia Lee B.S. 1941, Wisconsin Teachers College	D.C.
Culpper, Myra Anne	Va.	Daly, Elizabeth Teresa	Va.
Culver, Ralph J. A.B. 1941, University of Maryland	D.C.	Daly, Marjorie Mary	Va.
Cummings, Calvin Hartley	D.C.	Dalzell, Harry Blackburn	Md.
Cummings, Julian Cowden	D.C.	D'Ambrasia, Rosina	D.C.
Cummings, Lelia Butt	D.C.	D'Amico, Albert J.	D.C.
Cummins, Marion Taylor	Pa.	D'Amico, Louise Virginia	D.C.
Cummins, William Edwin	D.C.	Damon, Armet	D.C.
Cunipston, Sam, Ellsworth B.S. 1942, United States Military Academy	D.C. Oreg.	Damon, John	D.C.
Cunin, Ruth Rosett A.B. 1934, The George Washington University	D.C.	Dancy, Suzanne Van Buskirk	D.C.
Cunningham, Cora Anne Berliner	D.C.	Dandeth, Robert Compton	Va.
Cunningham, Edith Virginia	Va.	Daniel, Martha Jean	Ala.
Cunningham, Mary Jean	Va.	Daniel, Robert Clinton B.S. 1931, Texas Agricultural and Mechanical College	D.C.
Cuno, Anne Payson	Va.	Daniels, Dulcie Ann	Md.
Curran, Edith Beatrice	D.C.	Daniels, Maynard Preston, Jr.	Va.
Curran, Patricia Joan	D.C.	Daniels, Rita Hope	W.Va.
Currie, Doris Luella	D.C.	Danielsen, Alward Anthony	N.D.
Currie, Margaret Compton	D.C.	Dannemoller, Robert Edgar	Md.
Curry, Bryce Quention	Ohio	da Paz, Ulysses Freite B.Ed. 1917, Normal School, San Paulo, Brazil	D.C.
Curry, Harriet Bradford	D.C.	Darby, Ellen Dunsmore	D.C.
Curry, Julia M. B.B.A. 1945, Kent State University	Ala. D.C.	Darby, Margaret Louise	D.C.
Curry, Loretta Jane	Va.	Darby, Nancy Palmer	N.Y.
Curry, Mary Jane	S.D.	A.B. 1943, Leland Stanford University	
Curry, Robert Bartlett	D.C.	Darcey, Betty Cecelia	Va.
Curtin, John Joseph A.B. 1936, Ohio State University	Ohio	Dareh, Norman Shepard	Ill.
Curtis, Evelyn Elizabeth	D.C.	Darmohray, Joseph Edward	Md.
Curtis, Floyd John	Ala.	Darmstadt, William Eugene	D.C.
Curtis, Kenneth Edward	Calif. D.C.	Darmstadter, Henry	D.C.
		Darner, Charles Leister	D.C.
		Darnieder, Victor Michael	Wis.
		Darrow, Carol Christine	Md.



Darter, Oscar Hadden	Va.	Davis, Helen Tyler	
A.B. 1922, State Teachers College		Davis, Henrietta Helen	
Ada, Okla.		Davis, Jane Anna	
A.M. 1926, Columbia University		Davis, Janice Ellen	
Darton, Eva Mae	N.C.	Davis, Jean Lanette	
Dasher, Gladys F.	Va.	Davis, Jewel Ann	
Datko, Martha Mae	Pa.	Davis, John Oliver	
Datlow, Gerald Allen	D.C.	Davis, Joseph Edward	
Daubanton, Conrad Jacques	D.C.	Davis, Joseph Mattain	
Daugherty, Charles Raymond	Minn.	Davis, Mary Elizabeth	
A.B. 1944, The George Washington		Davis, Mary Juliard	
University		Davis, Mary Lou	
Daugherty, Robert Murray	D.C.	Davis, Oscar Lloyd	
Daughtry, Hugh	D.C.	Davis, Paul Lee	
Daumit, N. David	D.C.	Davis, Pauline Gish	
Davenport, Claude Ralph	D.C.	Davis, Phyllis Rita	
A.B. 1909, Doane College		Davis, Rudetick Clinton	
Davenport, John Hobson	Va.	Davis, Sadie Bell	
Davenport, Lynwood Louis	Va.	Davis, Sadie Jane	
Davenport, May Marie	D.C.	Davis, Tevis Lee	
Davey, Charles Henry	D.C.	B.S. 1941, Clemson College	
A.B. 1937, University of California		Davis, Welton London	
David, Harry	D.C.	Davis, William Erras	
David, Moyca Christy	Ariz.	Davison, Clarke	
A.B. 1941, Mills College		Davison, Harvey Douglas	
David, Robert Spencer	Calif.	Davitt, Phyllis Ann	
B.S. 1938, University of California		Dawson, Edward Balloch	
Davidov, Betty Marilyn	Md.	A.B. 1936, Princeton University	
Davids, Frances S.	Va.	Dawson, Grail Golein	
A.B. 1944, The George Washington		B.S. 1944, The George Washington	
University		University	
Davidson, Frank Joseph	Va.	Dawson, Margaret	
Davidson, Grace Moffat	Pa.	Dawson, Reed Barnes, Jr.	
A.B. 1941, Vassar College		B.S. 1941, Harvard University	
Davidson, James Campbell	Mo.	Day, Calvin Woodward	
A.B. 1941, William Jewell College		Day, Charles Herbert	
Davidson, Samuel	N.Y.	A.B. 1918, Fenn College	
B.S., M.S. in Ed. 1933, College of		Day, Gregory C.	
the City of New York		Day, Jane	
Davidson, Sidney Wetmore	N.Y.	Day, Lois Maude	
A.B. 1941, Yale University		Deacle, Robert Erroll	
Davies, Edith Maurice	D.C.	B.S. 1911, Washington and Lee	
Davies, Emily May	Va.	University	
Davies, Helen Maurice	D.C.	M.E. 1939, University of Pittsburgh	
Davies, Herbert Edward	Wash.	DeAgro, Richard Parker	
Davila, Irma	F.R.	Deaigh, Janetia Marie	
B.S. in Ed. 1941, University of		Dean, Bettvnan	
Puerto Rico		Dean, Dorothy Louise	
Davis, Agnes Eleanor	Va.	Dean, Gertrude Mary	
Davis, Albert Plummer	Va.	Dean, Gunpa Lee	
B.S. 1934, Northeastern University		Dean, Mary Kendrick	
Davis, Annette Lucile	D.C.	Dean, Olga	
Davis, Augusta Hines	Va.	Dean, Patricia Ann	
Davis, Billie Burke	W.Va.	Dearborn, Suzanne	
Davis, Catherine Caldwell	Va.	Deaton, Clara S.	
Davis, Cathryn Riggelman	Md.	DeBarer, Charles F.	
A.B. 1944, The George Washington		DeBinder, Christine Elisa	
University		DeBurr, Mary Margaret	
Davis, Dale Miller	Tex.	Dechert, Joseph Alfred	
Davis, Donald Martin	Va.	Deck, Marcena F.	
B.S. 1916, University of Dayton		Deckelbaum, Fred Irving	
Davis, Dorothy	D.C.	deCourcy, Elizabeth Rowland	
Davis, Dorothy Arlene	D.C.	Dee, Lucy Anita	
Davis, Earl Dean	Oreg.	Deegan, William John, Jr.	
Davis, Edith Mae	D.C.	Deem, Jack William	
Davis, Edwin Lanier	D.C.	Dees, Lola Tidwell	
Davis, Eleanor Adele	D.C.	Deese, Ruby Bodenhamer	
Davis, Elton D.	N.J.	Deeters, Elsie Elizabeth	
Davis, Evelyn Smalling	Va.	DeFreitas, Edward Neville	
Davis, Fred Wilson	W.Va.	Defren, Seymour	
A.B. 1918, Marshall College		Degenhardt, Gloria Ann	
Davis, Frederic Terrence	Ga.	B.S. 1944, Union Teachers College	
Davis, George Barker	Pa.	DeGraw, Federico Emanuel	
Davis, Helen Liebert	Tex.	deHass, Lucille Reed	

# Students Registered

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Dehsy, John Paul	Ohio	Derrick, Duane Greenwood	Utah
Dehl, D. George	D.C.	Derrick, Pauline Geneva	D.C.
A.M. 1940, Drake University		Derrom, Delta	D.C.
Dekom, Otto Joseph	N.Y.	Derryberry, Charles Piner	Va.
de la Croix, Eugene R.	La.	Derryberry, Nancy Hartis	D.C.
de la Huerta, George Viteri	D.C.	Destazo, Katherine Conshaw	Va.
del Alva, Elizabeth Lane	D.C.	A.B. 1945, The George Washington University	D.C.
A.B. 1943, University of California		de Silva, Sara Thompson	D.C.
Delaney, Carroll Day	N.Y.	A.B. 1924, Wellesley College	
Delaney, John Aloysious	D.C.	A.M. 1927, Radcliffe College	
Delaney, Regina Frances	Va.	Deskin, Elaine	D.C.
Delano, Ruth Elsie	Minn.	Deskin, Leona	D.C.
B.S. 1939, University of Minnesota		Desmond, Baker Blake	Ala.
Delasos, Lewis	D.C.	de Souza, Maria Berenice Camein	D.C.
De La Verne, LeRoy, Jr.	N.Y.	DeSpain, Maria Patricia	Iowa
B.S. 1943, Queens College		A.B. 1944, Colorado State College of Education	
Delk, Frank S.	D.C.	DeSpain, Mary Jane	Iowa
Dellet, Margaret Lenora	D.C.	A.B. 1943, State University of Iowa	
Delong, Allen Rhodes	D.C.	DesRochers, Marcel Erlim	N.H.
A.B. 1941, Washington and Lee University		Dessez, Sally C.	D.C.
Delpopolo, Anthony James	N.Y.	Desmet, Edwin Charles	D.C.
B.S. 1937, State Teachers College, Buffalo		Detrich, Mary Jane	Md.
Delung, Harry Leonard	W.Va.	Detty, George William, Jr.	D.C.
A.B. 1936, West Virginia University		Deutrich, Bernice Marie	D.C.
Del Vecchio, Marie	D.C.	Dentsch, Janet Marie	Minn.
Delwart, Louis Olivier	Belgium	Deutsch, Morris Robert	N.Y.
Demas, Esther Peter	D.C.	Dewan, Thomas Arthur	D.C.
Dembling, Paul G.	N.J.	DeWane, James Dickson III	N.C.
A.B. 1942, A.M. 1942, Rutgers University		DeWane, Sister Raphael	D.C.
de Medeiros, Fernando Labaria	D.C.	Devilbiss, Winbar	Md.
LL.B. 1944, The George Washington University		A.B. 1925, Western Maryland College	
DeMeritt, Sylvia Barbara	D.C.	A.M. 1935, University of Maryland	
De Micheli, Irene C.	Ohio	Devin, Roderick Cadell	Wash.
Demiug, Albert R.	Mich.	Devine, Edward Peter	D.C.
Deming, Harry	Va.	Devine, Kathleen Frances	Md.
B.S. in P.E. 1936, The George Washington University		Devine, Lola C.	N.J.
Demene, Lawrence Urban	D.C.	Devine, Patricia Noel	D.C.
DeNapoli, Gerard Ralph	Mass.	De Vries, Harold	N.Y.
B.S. 1941, Northeastern University		Dewberry, Raymond Allen	Va.
De Neale, Ruth Lorraine	D.C.	Dewberry, Willis E.	D.C.
Denham, Alice	D.C.	Dewey, Anne Helen	Va.
De Niro, Patrick Joseph	D.C.	Ed.D. 1936, New York University	
Denhard, J. Frank Nottis	N.Y.	Dewey, John Dickson	D.C.
LL.B. 1942, University of Texas	Tex.	Dewey, Mary Ellen Sim	Nebr.
Dennis, Virginia Loretta	Calif.	A.B. 1944, University of Nebraska	
A.B. 1935, University of California		DeWitt, Harry Merton	Ala.
A.B. 1937, State University of Iowa	Va.	B.S. 1942, Alabama Polytechnic Institute	
Dennison, Robert Evans, Jr.	N.J.	DeWitt, Henry Arthur	D.C.
A.B. 1937, Princeton University		DeWolf, Henry Mark	Minn.
Denny, Alice Josephine	D.C.	Dex, Helen Mildred	D.C.
Denny, Robert Robinson	D.C.	Dexheimer, John Peter III	N.J.
Denslow, Theodore North	D.C.	De Zouche, Dorothy Elisabeth	D.C.
A.B. 1931, University of Virginia		A.B. 1941, Iowa State Teachers College	
Dent, Margaret Mercedes	D.C.	Diamond, Evelyn Hilda	D.C.
Denton, Elmo Hilliard	N.C.	A.B. 1913, New York University	
Denton, Gladys Loretta	D.C.	Diamond, Isaac	Md.
Denton, Marian H.	D.C.	Diamond, Isadore Dinny	D.C.
B.S. 1926, A.M. 1927, George Peabody College for Teachers		Diamond, Leonard	N.Y.
Denty, Winifred Evelyn	D.C.	Diamond, Melvan Harry	D.C.
Denzer, Phyllis Perin	Ohio	Dibble, Theodore Robert	Colo.
Deondes, Emmanuel George	D.C.	B.S. 1945, United States Naval Academy	
Depiro, Carl Michael	Va.	Dichter, Jack C.	N.J.
Depue, Margaret Van Nostrand	Va.	Dickerson, Edith W.	D.C.
Derr, Luella	Ill.	Dickerson, Rollin Peter	Md.
Derr, Charles Ivan		Dickey, Basil Gordon	D.C.
A.B. 1939, Illinois Wesleyan University		Dickey, Joyce Jane	Ark.
		Dickey, Mary Graham	Pa.
		Dickinson, Pleda Anne	Ill.
		Dickson, Effie Edna	Tenn.

Dickson, Lois Pengelly	Pa.	Dmitrieff, Eleonore	D.C.
Diedrich, John Rufing	Va.	A.B. 1929, University of Washington	Md.
A.B. 1935, University of Richmond	D.C.	Doak, John Bell	D.C.
Diehl, Lohan Snyder	Va.	Duane, John Emil	Mass.
A.B. 1943, Bridgewater College	D.C.	Dubbin, John Vance	Wash.
Diereks, Fred Herman	D.C.	Dubler, Frederick Franklin	Md.
A.B. 1941, East Texas State Teachers' College	D.C.	Dubres, Jeanne Louise	N.Y.
Dieterle, Dorothea Mary	D.C.	Dobrowski, Helen Little	N.Y.
Dietterick, Robert Paul	Pa.	A.B. 1943, Women's College of the University of North Carolina	Va.
Dietz, William Edward	Kans.	Dobson, Hugh Harper, Jr.	Md.
Diggins, John Robert	D.C.	Dobson, Elizabeth Lewis	Md.
Dr. Gulian, Ann Maria S.	D.C.	Dockett, Richard Baruch	Iowa
Dik, Elsa Lilly	N.Y.	Duckertman, Mollie	Md.
Diliberto, Joseph Charles	Va.	Dodd, James Amos	N.J.
M.E. 1936, Stevens Institute	D.C.	Dodd, Sylvia Betts	Ark.
Dillard, Katherine Albritton	D.C.	Dodds, Iris	D.C.
Dilli, Barbara Lindsey	D.C.	Dodge, Alwyn Conrad	D.C.
Dillingham, Conway C.	D.C.	Dodge, Evelyn Laura	D.C.
L.L.B. 1929, University of Maryland	D.C.	Dodson, Claire	Ind.
Dillon, Albert Leroy	D.C.	Dodson, Fiba Aileen	Va.
B.S. 1939, University of Illinois	D.C.	Dodson, Leta Charles	Va.
Dillon, Beverly Anne	D.C.	Doe, Frederick Henry, Jr.	Ill.
Dillon, Edward Scott	D.C.	Doerflinger, Ralph Wilbur Lawrence	D.C.
B.S. 1942, University of Illinois	Nebr.	A.B. 1938, Carthage College	Ohio
Dillon, Estella Indianola	D.C.	Doernburg, Helen Hohanna Hulda	Ohio
Dillon, Helen	D.C.	Doerner, William Allen	Ohio
A.B. 1945, The George Washington University	D.C.	B.S. in Chem. Eng. 1942, Oregon State College	N.Y.
Dillon, Joe Clyde	D.C.	Deherty, Francis Connors	N.Y.
Dillon, William David	Va.	Deherty, John Carroll	D.C.
Dillon, Zietta Shriver	D.C.	Dee, Janet Anne	D.C.
Dilly, Marjorie Laverne	S.D.	Dolan, Joseph Edward	N.J.
Dimmitt, Joan Marion	D.C.	B.S. 1941, University of Illinois	N.J.
Dimen, Mary	Ga.	Doland, Alger Burr	N.J.
B.S. 1931, Georgia State College for Women	Pa.	M.D. 1945, The George Washington University	D.C.
A.M. 1941, Columbia University	Pa.	Doland, Helen-Marie Byars	D.C.
Dimpfl, Louise Mary	Md.	B.S. 1942, The George Washington University	D.C.
B.S. 1943, University of Pittsburgh	Minn.	Dollnick, Ethel Helen	Ill.
Dingman, Lester Francis	Mich.	B.S. 1943, The George Washington University	Ill.
Dinneen, Margaret Catherine	D.C.	Dolt, Harry William	Ill.
Dintaman, Robert Jay	Mass.	B.S. 1943, Illinois Institute of Technology	Tex.
B.S. 1945, Wayne University	Va.	Dom, Francis Pearl	Ind.
Dion, Marie Berthe	Ill.	Dom, Jesse Roy	D.C.
Dionne, Patricia N.	D.C.	Domsky, Irwin Theodore	Va.
Dippold, Nancy Jane	Idaho	Donahew, Constance Teresa	D.C.
Dirks, Gwendolyn Jeannette	Pa.	Donahue, John Andrew	D.C.
Dukken, Richard Wayne	Pa.	Donahue, John Urban	D.C.
Dusdier, Albert Pierre	Wyo.	Donahue, Mary Ellen	Ind.
Dusston, Samuel	Wyo.	Donahue, Thomas Francis, Jr.	Va.
Dyster, Oscar Charles	D.C.	A.B. 1941, Harvard University	Va.
Duston, Frank Earl	Va.	Donald, Kathleen May	D.C.
Duston, Luella M.	Va.	A.B. 1942, Simpson College	D.C.
Dittenhofer, Samuel William, Jr.	Va.	Donaldson, John Charles L.	D.C.
Dix, William Robinson	Va.	Donaldson, John Eldridge	D.C.
A.B. 1937, Pomona College	Va.	Donecho, Deborah Ann	D.C.
A.M. 1939, University of Cincinnati	D.C.	Donesa, Nicanor Pingson	Ill.
Dix, Clarice Belle	Va.	Donker, Helen Jeanne	Ill.
A.B. 1936, Vanderbilt University	Va.	A.B. 1941, University of Illinois	Ill.
Dixon, Ballard Fulton, Jr.	D.C.	Donnell, Betty Jane	Ill.
Dixon, Kenneth Fife	Va.	A.B. 1945, The George Washington University	Va.
A.B. 1945, The George Washington University	D.C.	Donnelly, Henry Joseph, Jr.	Va.
Dixon, Ola Maye	Va.	B.S. in Econ. 1928, University of Pennsylvania	D.C.
Dixon, Thomas Francis	Va.	Donnelly, Mary Elizabeth	Calif.
M.S. 1945, California Institute of Technology	Md.	Donoghue, Edward Patrick	D.C.
Djatiasmord, Basoeici	Va.	B.C.E. 1941, Catholic University of America	D.C.
Djiovanidis, John Constantine		Donshoe, Grace Louise	
B.S. 1940, Virginia Polytechnic Institute			



# Students Registered

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Donohoe, John Carroll, Jr.	D.C.	Dowdy, Sam Gene	D.C.
Donovan, Alden Ellsworth	Ill.	Dowe, Ray Michael, Jr.	Va.
B. Ed. 1943, Illinois State Normal University		Dowell, Earl Samuel	Ill.
Donovan, Charles Mahony	D.C.	Dowling, Dorothy Shreve	D.C.
A.B. 1942, Dartmouth College		Dowling, Richard Emmett	N.Y.
Donovan, Johanna Patricia	D.C.	Dowling, Vee	Va.
Donovan, John Bernard	Wash.	Downard, Ann Partin	D.C.
Donovan, John Harold	D.C.	Downer, Jo Elizabeth	D.C.
Donovan, Mary Elizabeth	Pa.	Downey, Alma G.	Nebr.
B.S. 1942, University of Pittsburgh		Downing, John James, Jr.	D.C.
Donovan, Richard Perry	Va.	Dumas, Alexis Hedefonse, Jr.	Va.
Dodley, Jay E.	D.C.	Dumas, Herbert	Va.
Dodley, Richard Francis	Md.	Dumas, Rhonda Jane	Va.
Dodtite, Mary Elizabeth	D.C.	Dumas, Robert Ann	D.C.
Doran, Roger LeRoy	Md.	Dowry, Paula Marie	D.C.
Doran, Veneta Jewel	Ind.	Doyle, Douglas Jerome	D.C.
A.B. 1940, Indiana University		Doyle, Godfrey William	Md.
Dorman, Horton Eugene	Md.	Doyle, Joseph Richard	D.C.
Dornbush, Anna Marie	Mich.	Doyle, Samuel Chamberlain	Md.
Dorr, Lonita	D.C.	Doyle, Theresa Beatrice	Maine
Dorsch, Robert G.	Wis.	Doyon, Rose Veronica	N.J.
B.S. 1944, University of Chicago		A.B. 1943, University of Maryland	
Dorsett, Harold Lee	Wyo.	Dozier, Lena Watkins	D.C.
LL.B. 1942, The George Washington University		Drager, Edith P.	D.C.
Dorsett, Henry Grady, Jr.	N.C.	Dragon, Roland Paul	Idaho
B.S. 1933, Wake Forest College		B.S. 1941, University of Idaho	
Dorsey, Benjamin Henry	D.C.	Drake, Gerald Philip	D.C.
B.S. in Eng. 1945, University of Pennsylvania		Draper, Andrew Marie	Va.
Dorsey, Margaret	Va.	Draper, Elizabeth Kohl	D.C.
A.B. 1926, Westhampton College		A.B. 1924, A.M. 1933, The George Washington University	
A.M. 1931, Columbia University		Drapkin, Leon Isadore	D.C.
A.M. 1945, The George Washington University		Draut, Woodson E.	Va.
Dorsey, William Henry, Jr.	D.C.	Drazin, Harry	D.C.
A.B. 1941, University of Dayton		Drebes, Marvin Laverne	Va.
Dort, Edna Josephine	Va.	Drehsbach, William Gerrish	Conn.
Dorton, Eva Mae	N.C.	A.B. 1938, University of Connecticut	
Dotson, Edwin John	Nev.	Dreisonstek, Erwin Milton	Md.
Dotson, Maryanna Elizabeth	D.C.	Drexes, Robert George	N.Y.
Doty, Dale Edward	Calif.	Drew, Jane Carolyn	D.C.
A.B. 1936, Pomona College		Drige, Virginia Mae	N.C.
A.M. 1938, University of Cincinnati		Driscoll, Joan	Conn.
Dotye, Myldred Marquerite	Va.	Driscoll, Joseph Patrick	N.Y.
A.B. 1942, The George Washington University		A.B. 1941, LL.B. 1943, Harvard University	
Dotzour, Frances May	Kans.	Druckmiller, Margaret Ellen	Va.
A.B. 1945, Oberlin College		Drullard, Daniel Clinton	D.C.
Doud, Marion Cecelia	Va.	Drum, Peggy June	D.C.
Doud, Robert DeVerle	Va.	Drum, Margaret Ann	D.C.
Doudevo, Stella M.	D.C.	Drury, Charles Whitfield	Va.
B.S. 1936, Boston University		Druse, Katharine	Ohio
Dough, Alton Bartlett	D.C.	A.B. 1916, Iowa Wesleyan University	
Dougherty, Faith	D.C.	A.M. 1928, Columbia University	
Dougherty, Francis Robert	D.C.	Druden, Leslie Powell	Md.
Dougherty, John Edward	La.	Dubin, Harold	D.C.
B.S. 1942, Louisiana State University		Dubin, Nora	N.Y.
Douglas, Albert Hutchinson	Va.	DuBois, Mary Evelyn	D.C.
Douglas, Helen Olivee	S.C.	DuBose, Lane Eugene	Va.
Doukas, John Michael	D.C.	Dubowsky, Sylvia Ruth	Ohio
Doundoulakis, George J.	D.C.	A.B. 1938, University of Cincinnati	
Dove, Hilda Virginia	N.C.	Dubroff, Seymour	N.Y.
Dove, Shirley	Md.	Duchene, Emily Mary	D.C.
A.B. 1940, Colorado University		Duckett, Robert Edward	S.C.
Dow, Charles Noble	Md.	B.S. 1936, Furman University	
Dow, Thomas W.	D.C.	Duckreischel, Sister Mary Luke	D.C.
B.S. 1928, M.S. 1941, Purdue University		Duckworth, Pauline A.	N.Y.
Dowd, Joseph Mortimer	D.C.	A.B. 1939, Syracuse University	
B.S. 1939, The George Washington University		Duckworth, Robert Collins	Va.
Dowden, Ruth Elizabeth	D.C.	Duda, Cecilia Wanda	D.C.
		Dudley, Robert Earl	Va.

Dudley, Samuel Charles B.S. 1936, Washington College B.Eng. 1936, Johns Hopkins University	D.C.	Duvall, Mabel Belle A.B. 1944, The George Washington University	D.C.
Duerbeck, Louise M.	D.C.	Duvall, Mary Charlotte	Va.
Duerst, Mildred Margaret	D.C.	Duvall, Wilbur Irving	Md.
Duffy, Adrienne Mann	D.C.	Du Verger, Martha Margaret	Md.
Duffy, Eugene Grimsley	N.Y.	Dwyer, Mary Josephine	Nebr.
Duffy, Francis Arthur	D.C.	Dwyer, Vernon James	Ind.
Dugan, Michael Hugh	W.Va.	Dyck, John	Conn.
Dugan, Rosemary	Ohio	Dyck, William Donald	D.C.
Dugdale, Donna Elizabeth	D.C.	Dyer, Lois Lillian	D.C.
Duke, Blanche Amelia	Conn.	Dyer, Marion Paul	D.C.
Duke, Helen Jean	Ala.	Dyer, Robert Francis	D.C.
Duke, Norma Grace	Md.	Dyring, Louise Mathilda	N.Y.
Dulaney, Carl Whitesell	Va.	Dysland, Robert Carroll	D.C.
Dulaney, Eula Lee	D.C.	Dzubak, Margaret Elinor	D.C.
Dulaney, Benjamin Weems A.B. 1941, University of Virginia		E	
Dulberger, Harriette Frederica	D.C.	Eakin, Birch Hitt	D.C.
Dumaine, Elizabeth Graham	Va.	Eanet, Myron Louis	D.C.
Dumaine, Elizabeth Graham A.B. 1945, The George Washington University		Eanet, Rena Doris	D.C.
Dumaine, Gabriel Romain	Va.	Earl, Charles Merritt, Jr. A.B. 1947, Western Maryland College	Md.
Dumaine, Doris	D.C.	Earls, Alice Darleen	Ill.
Dunaway, Clifford Harry	Va.	Early, Lillian Clayton	D.C.
Dunaway, Edward George	Mo.	Earnest, Loudean Sherrill	D.C.
Dunaway, Helen Elizabeth	Iowa	Earp, Thomas Spencer	Va.
Dunaway, Maxine	Md.	A.B. 1939, Elon College	
Dunaway, Phyllis Jean	Iowa	Eason, Emma Jean	D.C.
Dunbar, Mary Frances	D.C.	Easter, Albert B.	Md.
A.B. 1942, Wellesley College		Easterling, David, Jr.	D.C.
Duncan, Charles Kenney	Va.	Easterson, Harold George	D.C.
B.S. 1939, United States Naval Academy		Easton, Ethel Durant	Calif.
Duncan, Margaret Adele	D.C.	Easton, Patricia Laura	N.Y.
Duncan, Robert Dillon	D.C.	Eastwood, Flora Nell	Va.
Durfee, Bernadine Langdon B.S. 1939, Wilmington College	D.C.	Easton, Crum Hubert, Jr.	D.C.
Dunham, Claire d'Arcis	Md.	Eberle, Allan Richard	D.C.
Dunham, Olive Hovey	D.C.	Eberman, Jean Marie	Pa.
Dunivin, Barbara Jean	Va.	Ebert, Eleanor	Mo.
Dunkle, Janice Ermaine	Pa.	Eberwein, Decima Elizabeth	Kant.
Dunlap, Richard Lee	Md.	Eckert, Dorothy Bernap	N.J.
Dunn, Ann Clark	D.C.	Eckert, Edward Gammert	Mass.
Dunn, Dorothy Inez	Va.	Edels, Emily Jane	
Dunn, George Mitchell	D.C.	A.B. 1934, Wellesley College	
Dunnevant, James Randolph	D.C.	Edelman, Leonard	N.Y.
Dunhampton, Sarah Wiley	D.C.	Edelman, Seymour	Pa.
Dunton, Margaret Stephens	Md.	Edelstein, Shirley Doris	Ark.
Duplinsky, Joseph Francis	Va.	Ederington, Virginia	D.C.
Dupre, Forrest Francis	Conn.	Edge, Ruth Marianne	D.C.
DuPon, Zula Hays	R.I.	Edgerton, John D.	D.C.
Duprex, Wilson Gilliland	Md.	Edgerton, Joseph William	Va.
Duque, Jose Gabriel	D.C.	Edie, Mayme Viola	D.C.
B.S. 1944, American University	Panama	Edlovitch, Fannie Frances	N.Y.
Durall, Allen J.	D.C.	Edmund, Kenneth	
Durfee, Grace Campbell	D.C.	B.S. 1940, State Teachers College, Buffalo	
B.S. 1947, University of Minnesota		Edson, Franklin Wills	D.C.
Durkin, Franklin Willoughby	D.C.	Edmon, C. H., Jr.	Va.
Durgin, Irene M.	D.C.	Edward, Mary Frances	D.C.
Durrance, Alma Lee	D.C.	A.B. 1934, University of Texas	
D'urso, Alfio Mario	Ill.	Edwards, Frederick Andrews	Va.
Durst, Barbara Alice	D.C.	Edwards, Irene Mae	Pa.
Dury, Abraham	Calif.	Edwards, James Edwin	Fla.
A.B. 1936, Brooklyn College	Md.	A.B. 1935, The George Washington University	
M.S. 1940, New York University		Edwards, Jean Shearer	D.C.
Duryee, Joseph Bowden	D.C.	Edwards, John Elliott	Mab.
Dusinberre, John Worthington	D.C.	A.B. 1931, Fordham University	Calif.
Duvall, Allen Joseph	D.C.	Edwards, Marion William	D.C.
Duvall, Andrew Bradley, Jr. A.B. 1939, Princeton University	Md.	Edwards, Mary Louise	Md.
		Edwards, Nelson William	Pa.
		Edwards, Phyllis Mildred	
		B.S. 1940, Pennsylvania State College	

Edwards, Virginia Dayle	D.C.	Ellett, Charles Crittenden	D.C.
Edwards, Walter Robert	Miss.	Ellington, Marquerite Eva	D.C.
A.B. 1941, The George Washington University		Ellis, Sidney Barrington	D.C.
Egan, Anna Virginia	N.J.	Ellis, Albert Franklin	Va.
Egan, John Francis	Mass.	Ellis, Edward Jr.	N.Y.
Egan, Richard Borton	Kans.	B.S. in M.E. 1936, Purdue University	
Egan, Sarah Alice	D.C.	Ellis, Freddy Jane	Tex.
Eggeling, Dorothy Jean	Md.	Ellis, Jane Lucia	Va.
Eguiguren, Joan Casterlin	D.C.	Ellis, Louise Ortedal	Calif.
Ehlers, Joseph Henry	Calif.	A.B. 1939, Wellesley College	
B.S. 1914, M.S. 1916, Trinity College		Ellis, Lucy Marshall	Ky.
Ehlshlager, Adam Charles	Md.	A.B. 1940, University of Kentucky	
A.B. 1937, The George Washington University		Ellis, Mary Elizabeth	Va.
Ehrenkrantz, Manon	N.Y.	Ellis, Robert Stanley	Ill.
Ehrlich, Edith Barnes	Conn.	Ellis, Esther Lucie	Va.
Ehrlich, Eugene Allen	D.C.	Ellis, Eva Belle	Tex.
B.B.A. 1941, College of the City of New York		Ellis, Francis Howard	D.C.
Ehrlich, Helen Gertrude	Mass.	Ellis, Frankie Angelina	S.C.
Ehrmantraut, Harry Charles	D.C.	A.B. 1945, Coker College	
Ellis, Phillis	D.C.	Ellis, Helene	D.C.
Ellis, Frank Joseph	D.C.	Ellis, Henry Herbert	D.C.
Eichhorn, Raymond Aloysios, Jr.	D.C.	Ellis, Janet Louise	D.C.
Eichenhoff, Ebel Nadine	Md.	Ellis, John Flather	D.C.
Eidenbock, Leo William	D.C.	Ellis, Kent	D.C.
Eierman, Mary Harris	D.C.	B.S. 1942, Yale University	
B.S. 1943, University of Maryland	Md.	Ellis, Mary Kate	Ga.
Effendi, Phillis	D.C.	Ellis, Robert Arthur	D.C.
Elbert, Richard Lyle	D.C.	Ellison, Frances Erlene	D.C.
Eisenberg, David	D.C.	Ellsworth, George Kenneth Cobb	Ohio
Eisenberg, Samuel	N.J.	Ellsworth, Virginia	D.C.
Eisenberg, Albert	W.	Ellmendorf, Virginia Merle	D.C.
Eisenberg, Murray L.	Pa.	Elmore, Dwan Edward	Nebr.
B.S.S. 1940, College of the City of New York	N.Y.	Elze, Marjorie Fulton	Ohio
Eisenberg, William Victor	D.C.	A.B. 1945, Ohio Wesleyan University	
A.B. 1934, Brooklyn College		Elzner, Herbert	D.C.
A.M. 1942, The George Washington University		Elzove, Fania Rose	D.C.
Eisenberg, Zulek Maurice	D.C.	A.B. 1942, The George Washington University	
Eisenberger, Charles Augustus	N.C.	Elzove, Solomon	D.C.
Eisenhauer, Leonard R.	Pa.	Emerson, Charles William	D.C.
Eisenstat, Myrtis Miller	D.C.	Emerson, Earl W.	D.C.
Eisenstein, Janice M.	D.C.	Emert, Anna Mae	Pa.
B.S. 1945, The George Washington University		Emery, Betty Jean	D.C.
Eisinger, Elizabeth de Temple	D.C.	Enders, Arthur Philip	Md.
Eisinger, Margaret Nell	N.Y.	B.S. 1941, University of Wisconsin	
Ekis, Mark	D.C.	Enders, Gertrude Elsa	D.C.
Ekis, Sigurds Mierualdis	Tex.	A.B. 1937, Elmhurst College	
Elam, Neva M.	Ind.	B.S. in L.S. 1938, Drexel Institute of Technology	
Elder, Damon R.	D.C.	Enders, William Henry, Jr.	Va.
B.S.A. 1942, Purdue University		Engelbrecht, Fred Byron	D.C.
Elder, Helen Koch	D.C.	England, Collin Byfield	D.C.
Elges, Margie Edith	Ind.	England, Ruth Inez	Ill.
Elges, Hildegard Pauline	S.D.	Engle, Eloise Katherine	D.C.
Elison, Harry Edward	Md.	Engle, Ruthann	D.C.
Elison, Jack	N.Y.	Engler, Frances Ann	Md.
B.S. 1937, College of the City of New York		Engler, Theresa Nolan	Md.
Elison, Marcelle Diane	N.Y.	English, Clifton Paul	D.C.
Elkin, Anne	D.C.	English, Marion Elizabeth	Minn.
Elkin, Evelyn	D.C.	A.B. 1944, University of Minnesota	
Elko, Helen	Pa.	English, Rosemary	N.Y.
Elledge, Annie Moore	Miss.	English, William Richard	D.C.
A.B. 1941, The George Washington University		Ennis, Joseph Benjamin, Jr.	Va.
Ellenwood, Robert C.	Ohio	B.S. 1933, St. Bonaventure College	
B.S. 1942, Ohio University		Ennis, Ralph McPherson	Ohio
Eller, Maurice	D.C.	A.B. 1930, Linfield College	
		Eoff, Flossie James	Ark.
		Epperson, Lawrence L.	D.C.
		LL.B. 1937, National University Law School	
		Eppler, Gerald Clyde	Md.
		Eppley, Mary Ellen	D.C.



Epstein, Joseph Bernard A.B. 1942, The George Washington University	N.Y.	Ewen, Harold Irving A.B. 1943, Amherst College	Mass.
Epstein, Julius Eugene	Conn.	Ewen, Sally Lewis	D.C.
Epstein, Susan E.	D.C.	Ewing, Cleo Maxine	Ill.
Evans, Clara Ellison	D.C.	Ewing, Leslie Clark	Mass.
Erickson, Eleanor Grace	D.C.	A.B. 1940, Johns Hopkins University	Minn.
Erickson, Swan A.	Ill.	Ewy, Constance Madeline	
Erickson, Betsy	D.C.	A.B. 1941, The George Washington University	N.Y.
Erickson, Beverly M.	Wis.	Facell, Katharine Edith	D.C.
Erler, Mary Elizabeth	D.C.	Fadness, Joan Wheeler	D.C.
Ertel, Edward Cranch	D.C.	Fallon, Rose Patricia	N.C.
Ertel, Marie	D.C.	Fazell, Dean Joseph	D.C.
Essling, William Henry A.B. 1941, Bethany College Ph.D. 1943, Johns Hopkins University	Va.	Fazrin, Ivan Allan	
Evatt, Emma Frances B.S. 1944, Wilson Teachers College	Md.	Fabianich, Antoinette Marie	Md.
Evans, John Ethel A.B. 1943, Duke University	N.C.	Faber, Frederica Lewis B.S. 1947, M.S. 1942, Cornell University	D.C.
Evans, Hope	D.C.	Fagett, Ida Florence	Mass.
Evans, Albert Frederick	D.C.	Faher, Eleanor Ruth	Va.
Evans, Frederick Edward	N.Y.	Fairney, John William	D.C.
Evans, James G.	D.C.	Farella, Lawrence B.	
Evans, Elizabeth Marie	D.C.	Li. B. 1946, LL.M. 1947, St. Lawrence University	Va.
Evans, Ruth Ida	N.Y.	Farrar, Constance	D.C.
A.B. 1937, Skidmore College		Farrar, Seymour Barton	Mass.
Espada, Delia Gonzalez	D.C.	Farrar, Thomas Josephine	D.C.
Espada, John Elmer	Va.	Farr, Emily Cottrell	Va.
Estep, Helen Elizabeth	D.C.	Farr, Joseph Stutzman	D.C.
Estep, Mildred Adelaide	D.C.	Farr, Robert James	Va.
Essex, Elizabeth Theresa	D.C.	Farr, Robert James	Va.
Estabrook, Carl Gailber B.S. in E.E. 1941, The George Washington University	Va.	Farrchild, Betty Anne	Va.
Estabrook, Watts Tracy, Jr.	D.C.	Farrchild, Viola Irene B.S. in Ed. 1933, Drexel Institute of Technology	N.Y.
Estes, Carl W.	Va.	Faulley, John Stuart	D.C.
Estes, Harry Edward	Va.	A.B. 1941, Ham College	
Estes, Frances Elizabeth	Va.	Faul, Elizabeth Judith	
Estes, George Byron	Md.	B.S. 1940, Tennessee College for Women	D.C.
Estes, William Henry	D.C.	Falket, Barbara Ann	Calif.
Estes, Jere Hubbard	Md.	Falmer, Donald Pearson A.B. 1940, University of California	N.Y.
Estes, William Richard A.B. 1940, Mount St. Mary College	D.C.	Falmer, Stanley	Va.
Etzler, Ethel Selena	Va.	Falk, Phyllis	Conn.
Etzler, Frank Hamilton	Va.	Falk, Sydney Westermelt	N.J.
Eustace, William Elmer	Pa.	Falkenburg, Francis C.	Mo.
Evens, Madeline Marie	D.C.	Falkenburg, Frank George	D.C.
Evens, David George	Va.	Falkenburg, Harry James, Jr.	La.
Evens, Douglas Kibbey	Idaho	Falks, Ruby Lee	D.C.
Evens, Elmer	D.C.	Fallon, Elizabeth Loraine	N.Y.
Evens, Elizabeth Darling	D.C.	Farber, Betty A.	D.C.
Evens, Harold Robert	Mich.	Farley, Philip John	D.C.
Evens, Helen Louise	D.C.	Farmer, Jean Singleton	Va.
Evens, Joseph	N.Y.	Farmer, Mary Elizabeth	Ind.
A.B. 1941, Brooklyn College		Farmer, Mary Virginia	D.C.
Evens, Janet Stokes	Ohio	Farmer, Rose Anna	D.C.
Evens, Lucy Tongue	N.C.	Farmer, Virginia May	D.C.
Evens, Margaret Ann B.S. 1942, West Texas State College	Tex.	Farmer, William Crawford	D.C.
Evens, M. Harriet	Conn.	Farrall, Cynthia	Md.
Evens, Marjorie Rhea A.B. 1944, University of Kansas	Va.	Farringer, Dale E. A.B. 1943, University of North Dakota	Md.
Evens, Norman Charles, Jr.	D.C.	Farrington, Bluebelle Maurine B.S. 1928, Oklahoma Agricultural and Mechanical College	D.C.
Evens, Robert Joseph	N.Y.	Farris, Frederick Joseph	Maine
Evens, William Herbie	Va.	Farris, Harry Robinson	D.C.
Eveland, Daniel	Pa.	Farsching, Margaret Ramsey	Md.
Evenson, Marilyn Olivia	Va.	Farver, Albert Steele A.B. 1936, University of Maryland	
Everett, Phoebe Ruth	D.C.		
Everly, Ellen Jane	Pa.		
Ewan, Edward Theodore	Mo.		
Ewen, Charles Robert	Md.		

Fary, Thomas Franklin	Va.	Ferguson, William Richard	Iowa
Fasanko, Nancy Jean	Md.	Fernald, Charles Albert	D.C.
Faulkner, Ann Cooke	D.C.	A.B. 1944, Ohio State University	
Faulkner, Annavee Beverly	Okla.	Fernandez, Luz Petrovich	P.R.
Faulkner, Frank David	Mich.	A.B. 1928, University of Puerto Rico	
B.S. 1941, M.S. 1942, Kansas State College		Fernleaf, Lucille Irene	N.Y.
Faulkner, Joseph Goodson	D.C.	Fertee, Itha Henrietta	Pa.
B.S. in Com. 1934, University of North Carolina		Fertell, Barbara Ann	D.C.
Faurate, Herbert David	Md.	Fertier, William Harry	Pa.
Faxon, Florence	D.C.	Ferris, Dore Ray	D.C.
Faxon, Glen S., Jr.	Va.	Ferris, Grace Georgia	R.I.
Fay, Dupree	I.C.	Ferris, Betty Jean	D.C.
Fay, Elmer Royal, Jr.	D.C.	Ferris, S. Myler Davenport	Maine
Fay, Margaret Catherine	Mass.	A.B. 1936, Princeton University	
Fay, William T.	Mass.	1941, Charles Henry	D.C.
Fegard, Matzette Rose	Mass.	Lertz, John Paul	Pa.
Fearns, Eugene Riley	Va.	A.B. 1927, B.S. 1938, St. Joseph's College	
Featherstonhaugh, Marcia Jane	Md.	Fessenden, Lois June	Md.
Feeney, Albert William, Jr.	Va.	Fetter, Avron Lewis	N.Y.
Feierle, Jesse Alvin	Nebr.	B.S. 1941, College of the City of New York	
Federmann, Patricia Holmes	D.C.	Fetchers, James Vincent	Va.
A.B. 1945, The George Washington University		Fett, John G.	Maine
Federa, Walter Ernest	Ill.	A.B. 1944, University of Minnesota	
Fedrizzi, Lillian Frances	Maine	Fetter, J. Wallace Kermit	Pa.
Felley, Joseph Francis	Mass.	Fetters, Mable	Va.
Felton, Dorothy Corbin	D.C.	Fetters, William Henry	D.C.
Fellman, David Catherine	D.C.	Fetters, Wilfred Edwin	D.C.
Fellner, Anne Joseph	Ill.	A.B. 1941, Erskine University	
B.S.L. 1932, J.D. 1933, Northwestern University		Feld, Freda Elizabeth	D.C.
Feder, Morris Elizabeth	Va.	Feld, Mary Marjory	Tex.
Fedler, Clara Rose	D.C.	A.B. 1936, University of Texas	
Feldman, David	N.Y.	Feldner, George Hammett	Va.
Feldman, Elmer	N.J.	Feldner, Alice Marie	Mass.
Feldman, Grant R.	D.C.	Felds, Margaret Temperance	Va.
Feldman, Mary Elizabeth	D.C.	Felds, Grace Wanda	Calif.
A.B. 1943, The George Washington University		A.B. 1943, University of California	
Feldman, Rosetta A.	Md.	Felds, Ronald Catharine	N.C.
B.S. 1935, Johns Hopkins University		Feld, L. Rose	N.C.
A.M. 1940, The George Washington University		A.B. 1941, Wentworth College	
Feldman, Kyrle	Va.	Feld, George Charles	Calif.
Feldman, Sabe B.	D.C.	A.B. 1943, University of California	
B.S. 1936, Johns Hopkins University		Feld, Maria M.	D.C.
A.M. 1940, The George Washington University		Feldner, Robert Augustus	D.C.
Feldman, Sol Robert	D.C.	B.S. in E.E. 1942, Ohio Northern University	
Feldman, Gertrude	D.C.	Feldner, Gwendolyn Rosalie	Nebr.
Feller, Percy	Va.	Feldner, Ruth Louise	Va.
A.B. 1916, Shorter College		Feldman, Joseph Ernest	D.C.
Fellows, Karl Harrison	Wis.	Feldman, Ardis Wanda	N.D.
Fellows, Vera Ellen	Md.	Fitch, Edward Rufus	N.Y.
A.B. 1927, Colby College		A.B. 1941, Princeton University	
B.S. in L.S. 1928, Simmons College		Fitch, Lowell Edwin	D.C.
Fellows, William Albert	Maine	Fischer, Martha Fernelle	Ala.
Fennimore, Charles Russell	Va.	Finders, Lee McLeish	Iowa
Fenstermacher, Phyllis C.	Va.	A.B. 1941, University of Iowa	
Fenton, Elizabeth Faulkner	Ill.	Findlay, John Bradford, Jr.	Conn.
Fentress, Alvin Kirkwood	D.C.	Findley, Paul Augustus	Ill.
Fentress, William Howard	D.C.	A.B. 1943, Illinois College	
Fenwick, Adele B.	Pa.	Fink, Jules	D.C.
B.S. in Ed. 1940, State Teachers College, California, Pa.		Finkelstein, Lawrence	D.C.
Ferguson, Dean A.	D.C.	Finkel, Catherine Marie	Pa.
Ferguson, Earl E.	Md.	A.B. 1936, Mercicordia College	
Ferguson, Irene May	Ark.	Finney, Wilford Wayne	Mo.
Ferguson, Jean Agnes	D.C.	Fiorainonti, Mary Claire	D.C.
Ferguson, Wilfred Julian	D.C.	Fisher, Dorothy Enid	Canada
A.B. 1941, Erskine College		Fischer, Edwin Rees	N.Y.
		A.B. 1937, A.M. 1939, Columbia University	
		Fischer, William Frederick	Fla.
		Fischler, Jordan	N.Y.

Fischman, Morton	Pa.	Fletcher, Allan Stuart	Mass.
Fish, Bernadine C.	Tenn.	Fletcher, Darrell Wade	Md.
A.B. 1942, Murray State Teachers College		Fletcher, Lloyd Lee	D.C.
Fish, Elvina Rae	Ohio	Fletcher, Marjory June	Mass.
Fish, Joanne Margaret	D.C.	Fleiser, Morton	N.Y.
Fish, Rosemary Cress	D.C.	Fliegel, Sol Sidney	N.C.
Fishe, Stephen Sidney	N.Y.	B.S. 1941, University of North Carolina	
A.B. 1941, The George Washington University		Fling, Martha Kathryn	Ga.
Fisher, Albert	N.Y.	Fling, Otis Russell	D.C.
Fisher, Alice Elizabeth	D.C.	Flint, George N., Jr.	Mass.
Fisher, Allan Jacob	N.Y.	A.B. 1940, Harvard University	
Fisher, Daniel H.	W.Va.	LL.B. 1945, The George Washington University	
Fisher, Eleanor Claire	Pa.	Fliis, Richard Konrad	Wa.
Fisher, Elizabeth Pearle	N.C.	Floegel, Merle Ernest	D.C.
Fisher, Ernest Lowell	Md.	Flood, Agnes Therese	Md.
Fisher, Ethel Mae	Mass.	Flood, Bolling Byrd	D.C.
Fisher, Henry Weller	Md.	Flood, Lester Carp Mills	D.C.
Fisher, Jean Margaret	D.C.	Flood, Thomas Hayes	D.C.
Fisher, Kurt Fritz	N.J.	B.S. in Ed. 1915, State Teachers College, Buffalo	
Fisher, Marjolise	Pa.	Flores, Emilia	D.C.
Fisher, Marion Louise	Mich.	Flowers, Carroll William	N.C.
Fisher, Mary Louise	Md.	Floyd, Joanna Elizabeth	D.C.
Fisher, Robert Edwin	D.C.	Flower, Annette Leonard	Va.
B.S.E. 1925, University of Michigan		Flynn, Frank James	Mass.
Fisher, Sarah Louise	Va.	B.S. 1940, Holy Cross College	
Fisher, Sydney Gilbert	Va.	M.B.A. 1942, Harvard University	
B.S. 1940, United States Military Academy		Flynn, Joseph John	Ohio
Fishgall, Helen	D.C.	Flynn, Dorothy Elizabeth	N.C.
Fisk, A. Rebekah	Va.	Fabbe, Charles Joseph	Ky.
Fitez, Geraldine Marie	Md.	Fogarty, Dorothy V.	Pa.
A.B. 1929, Washington College		Fogel, Ethel Lana	D.C.
Fitton, Harvey Nelson, Jr.	Va.	Fogelgren, Agnes Marie	D.C.
Fitzgerald, John Dominic, Jr.	D.C.	Fogg, Charles Watson	Mass.
Fitzgerald, Marion Agnes Louise	Conn.	A.B. 1939, Duke University	
Fitzgibbons, David William	D.C.	Fohrmann, Ernest Frederick	Va.
B.S. in C.E. 1932, University of Michigan		Foley, Walter Allen	D.C.
Fitzpatrick, Alice Ward	D.C.	Folton, Joseph Carl	D.C.
Fitzpatrick, Robert Anthony	D.C.	Fomin, Oleg Borisovich	D.C.
Fitzsimmons, James E.	Calif.	Fong, Tom Lawrence	N.Y.
Fitzwater, Bruce Ellison	Md.	Fonner, Violet Ella	D.C.
Flack, William Marshall	Tenn.	Fonseca, Virginia H.	Va.
Fladeland, Howard T.	Va.	Fontes, Albert	D.C.
Flanagan, Charles Wyndham	D.C.	Fookson, Abraham	N.Y.
A.B. 1939, Pennsylvania State University		B.S. 1947, College of the City of New York	
Flanders, Robert Lee	Tex.	Foot, Barbara Gova	D.C.
Flanke, Daisy Cecile	D.C.	Foot, Dorothy Ellen	Tex.
Flarity, Warren Howard	Va.	Foot, Kenneth Charles	Mass.
B.E.E. 1945, The George Washington University		A.B. 1948, Brown University	
Flatequal, Arthur Marvin	Tex.	Foraker, Julia Benson	D.C.
Flather, Alfred Chester	D.C.	Ford, Evelyn Jean	W.Va.
Flax, Miriam Audrey	N.Y.	Ford, Kathryn	Ore.
Fleckenstein, Edna	N.Y.	Ford, Margaret Tabitha	D.C.
A.B. 1942, Queens College		Foreman, Darhl Lois	D.C.
Flecknoe, Harold Joseph	D.C.	Forer, Lucille K.	Calif.
Fleet, Hazel Logan	D.C.	Forkner, Leone Frochnow	Wis.
Fleischaker, Albert	N.Y.	B.S. 1945, The George Washington University	
B.E.E. 1940, College of the City of New York		Fornal, Theodore	D.C.
Fleischman, Beatrice	D.C.	Forrest, Herbert Emerson	N.Y.
A.B. 1940, The George Washington University		Forster, Clifton Bowman	Calif.
Fleischman, Ruth	D.C.	Forster, Muriel Joan	Md.
Fleming, Ellen Cornelia	D.C.	Fort, Sallie Bacon	D.C.
Fleming, Joan Loyola	N.J.	Fortman, Clayton Grimes	D.C.
Fleming, Lester Leroy	D.C.	Fortune, Evelyn Mary	D.C.
Fleming, Mary Alice	D.C.	Foss, Murray Forrest	Mass.
Flester, Paul Colton	D.C.	A.B. 1940, Harvard University	
		Foster, Henry Lockwood	D.C.
		LL.B. 1951, The George Washington University	



Foster, James William, Jr.	Va.	Fredlund, Robert Richard	Va.
Foster, Julius Elihu	D.C.	Fredrickson, Ferné Oscar	D.C.
LL.B. 1923, Duquesne University		Freed, Aleck	D.C.
Foster, Marie Louise	Va.	Freedenberg, Marvin	D.C.
Foster, Oran Virginia	Va.	Freedman, Loretta	D.C.
Foster, Ralph W.	Md.	Freeland, Ralph Lynn, Jr.	Calif.
A.B. 1941, The George Washington University		A.B. 1939, M.E. 1941, Stanford University	
Foster, Rebecca C.	Md.	Freeman, Aaron Elliott	Va.
Foster, Robert William, Jr.	D.C.	Freeman, Edmond Thompson	Fla.
B.S. 1939, Wilson Teachers College		A.B. 1935, Dartmouth College	
Foster, Ruth Beverly	La.	Freeman, Ellsworth Allen	Va.
A.M. 1942, Louisiana State University		B.S. in M.E. 1938, University of Michigan	
Foster, Sylvia Elizabeth	D.C.	Freeman, Mary Eleanor	D.C.
Foster, William Hecker	D.C.	Freeman, Marianne Virginia	Del.
Fouchi, Abel Earl	D.C.	Freer, Jacob Alice	Md.
Fouche, James Edwin	Va.	Freeman, Rosella Alice	D.C.
Fourmen, Ramon Antonio	Md.	Freeman, Morris	Va.
Fourner, Roland M.	D.C.	French, Elton Llewellyn	Va.
Foust, Norma Yvonne	Va.	B.S. in B.A. 1941, M.S. in B.A. 1944, Washington University	
Foster, Margaret Elder	Pa.	French, Judson Carl	Md.
Foster, Helen Maxine	Mo.	B.S. 1943, American University	
Fowler, Coy W.	D.C.	French, Ward Monroe	Pa.
Fowler, Kathleen Louise	D.C.	LL.B. 1936, Temple University	
Fowler, Mary Catherine	Mont.	Franelle, Jeanette Mary	D.C.
A.B. 1941, University of Minnesota		Freeman, Phyllis Langitt	D.C.
Fox, Alice Elizabeth	Ohio	Fresone, Theresa Lucy	Va.
Fox, Richard LeRoy	D.C.	Fretz, Joseph David	Va.
Fox, Ruth Anne	Ohio	Frey, Lewis Leslie	D.C.
Foxworth, Rebecca Ann	D.C.	Frey, Virgil Edward	Ky.
Fradenka, Joseph Brooke	D.C.	Finauf, Helen Cox	Va.
Fraser, William Jr.	D.C.	Finke, Gertrude Adela	Iowa
Frampton, Hugh MacNash, Jr.	D.C.	A.B. 1941, The George Washington University	
Francis, John Swanson	Va.	Friday, Edith Marguerite	Pa.
Francis, Ruby Irene	Canada	Fridinger, Arthur Boteler, Jr.	Va.
Francis, Vivian Irene	D.C.	Fried, Louis Frederick	Md.
B.S. 1941, Wilson Teachers College		Friedlander, Edward David	Va.
Francis, William McCafferty	Va.	Friedman, Charlotte Pearl	D.C.
Francis, Miguel A.	Va.	Friedman, Edward	D.C.
Francis, Jean Lucille	D.C.	Friedman, Evelyn Lea	D.C.
Frank, Michaela Maria	Vt.	Friedman, Gerald	D.C.
A.B. 1945, Sarah Lawrence College		Friedman, Ida	D.C.
Frankel, Adelaide	N.Y.	Friedman, Joyce Barbara	D.C.
Frankel, Esther Feller von Hellens	Va.	Friedman, Mary	S.C.
Franklin, Alice Elizabeth	Ohio	Friedman, Milton A.	Va.
Franklin, Gerald B.	N.Y.	Friedman, Murray	N.Y.
Franklin, J. Gardner	Md.	Friedman, Seymour Jack	N.Y.
Franklin, Mary Jeanne	Ind.	Friedman, Seymour Monroe	D.C.
Franks, Doree	D.C.	Friedman, Sol	D.C.
Franks, Kathryn	D.C.	Friend, Berta	N.Y.
Franks, Ottie Hicks	D.C.	B.S. 1941, New York University	
Frankwitz, Dorothy V.	D.C.	Friend, Norman Harold	D.C.
Frants, LaVerne Ardelle	N.Y.	Frier, James Henry	Va.
Fraser, Andrew	Minn.	Frier, Jane Roberts	D.C.
B.S. 1924, St. Andrews University		Frillman, Ann Elizabeth	D.C.
A.M. 1926, The George Washington University		Frisonne, Rose Marie	Pa.
Fraser, John Alexander	Ohio	Fritz, Rosa Maxine	D.C.
Fraser, Marguerite Ann	D.C.	Froelich, Clifford Mayo	N.D.
Fratcher, Florence Briscoe	Mich.	A.B. 1935, Macalester College	
A.B. 1937, University of Kansas		A.M. 1938, University of Minnesota	
Fray, Alice Iola	Colo.	Froelich, Jane Cecile	N.Y.
Frazee, Murray Bennett, Jr.	Pa.	A.B. 1930, Smith College	
B.S. 1930, United States Naval Academy		Froelich, Kathryn	Ind.
Frazier, Elizabeth Jane	Ohio	A.B. 1932, Evansville College	
Frazier, Edward Copes	D.C.	Froiman, Mary Satterlee	D.C.
A.B. 1936, Wilson Teachers College		Froiman, Seymour	N.Y.
Frazier, William Burleigh	Md.	Frome, Michael	N.J.
B.S. in E.E. 1940, Drexel Institute of Technology		Frost, Edward Hulburd	Ohio
Frechtman, Miriam Isenman	Mass.	A.B. 1941, Wesleyan University	
Frederick, Donald Ray	D.C.	M.B.A. 1943, Harvard University	
Fredericks, Leroy Woodrow	D.C.	Frost, John Dean	Iowa

Frounfelter, Ann Mariah	D.C.	Galodner, Sylvia	Del.
Fry, Margaret Isobel	Mich.	Galt, Lowell Truman	Md.
A.B. 1939, University of Michigan		A.B. 1933, Coe College	
Fry, William Frederick	Iowa	Galt, Ruth E.	Md.
B.S. in E.E. 1943, Iowa State University		Galyon, Louise Irena	D.C.
Frye, Barbara June	D.C.	Gambill, Dora Francis	Ark.
Fryer, Dorothea Constance	D.C.	Gamblin, Margaret Jane	Idaho
Fuchs, Frank Montford	Ill.	Gamboa, Pearl Grace	D.C.
B.S. in Chem. Eng. 1939, Princeton University		Gammon, William Howard	Va.
Fudge, Harry O Neil	D.C.	A.B. in Gov't. 1941, The George Washington University	
Fuerst, Jimmy Stein	D.C.	Gammons, Virginia Pierce	Mass.
A.B. 1937, New York University		Ganey, Mary Catherine	D.C.
A.M. 1941, University of Chicago		Gant, Mildred Roberta	Md.
Fuller, Bethes Anderson	D.C.	Gantz, Gertrude Soule	D.C.
Fuller, Douglas Raymond	Calif.	A.B. 1935, Yankton College	N.J.
A.B. 1928, M.B.A. 1930, Stanford University		Ganz, Alexander	Conn.
Fuller, Frank Gardner	D.C.	A.B. 1940, Rutgers University	
B.S. 1939, Aurora College		Garber, Alvin Josiah	
Fuldlowe, W. Sue	D.C.	B.S., M.S. 1938, Massachusetts Institute of Technology	Ind.
Fulton, Harold Arthur	Mo.	Garber, Arlene Sara	D.C.
Fulton, Mary Alice	D.C.	Garber, Joseph	D.C.
A.B. 1945, University of North Carolina		Garcia, Abelina	Wyo.
Funderburk, Ruth Falge	D.C.	Garcia, Ann Marie	P.R.
Funkhouser, Earl Maxwell	D.C.	Garcia-deQuevedo, Isabel	
Furber, Mildred	Mass.	B.S. in Ed. 1935, University of Puerto Rico	
Furland, Rita Beatrice	Mich.	M.S. in Ed. 1939, Cornell University	Peru
Furr, Edward Bransow	D.C.	Garcia, Enrique M.	D.C.
Futoran, Josef	N.Y.	Garcia, Robert	D.C.
B.S. 1935, M.S. 1936, College of the City of New York		Garcia, Thomas Gapsin	
Futovsky, Charles	D.C.	A.B. 1934, University of Redlands	D.C.
G			
Gaberman, Robert	D.C.	Garcia, William Roy	D.C.
Gable, Raymond Edgar	Pa.	Gardiner, Virginia Louise	Ala.
LL.B. 1931, A.B. 1933, The George Washington University		Gardner, Blanche Lamar	Va.
Gammel, Henry	Md.	Gardner, David Edward	Mich.
B.S. 1914, Long Island University		Gardner, Leland Gasser	
Gabrielson, Dorothy Jean	Va.	LL.B. 1914, A.M. 1940, University of Michigan	
Gaddis, Paul Lester	D.C.	Gardner, Marie Bruen	Va.
Gaetano, Ross Joseph	Pa.	Gardner, Maxwell Fry	Va.
Gaffney, Beryl Alva	Ohio	Gardner, Ronald MacGregor	Mass.
Gage, Lawrence Atlee	D.C.	Gardner, Sophia Schneider	Va.
A.B. 1926, The George Washington University		B.S. 1936, New York University	
Gagsteler, Noel Arthur	S.D.	Gardner, Spencer Delos	Mich.
B.S. in E.E. 1934, South Dakota School of Mines and Technology		Gardner, Virginia Mason	Md.
Gaines, William Embrey	D.C.	Gardner, Wamita	Mass.
Gallager, Corinne Stroock	N.Y.	Garcia, Rudolph	N.Y.
Galsom, Jocelyn Myra	D.C.	Garelk, Roberta Rose	D.C.
Gall, Amos Hamilton	W.Va.	Garey, Anne Harriman	Utah
Gallagher, Daniel Joseph	D.C.	Garfield, Edwin Burriss	D.C.
A.B. 1929, College of the Holy Cross		Garges, Ellen Clare	Mo.
Gallagher, Elizabeth Genevieve	Pa.	Gargus, James Leon	D.C.
Gallagher, Frank Joseph	N.Y.	Gurlem, Frederick George, Jr.	N.Y.
Gallahan, Betty Jane	D.C.	Gatman, David Alan	Va.
Gallant, Arthur	D.C.	Gatman, Phillips, L.	
Gallenstein, Leo Jacob, Jr.	D.C.	A.B. 1931, A.M. 1934, University of Washington	
Gallington, Ralph Ora	Md.	Garmany, Leatha May	Fla.
B.S. 1911, Indiana State Teachers College		Gatman, Harriette Leona	Va.
A.M. 1917, Columbia University		Gatner, Louis Eugene, Jr.	Md.
Galloway, Esther Augustine	N.C.	Gatner, Mary Frances	
Galloway, Henry Crane	D.C.	B.S. 1945, Mary Washington College	Va.
Galloway, Richard Allen	D.C.	Garner, Robert Williamson	
Galloway, Virginia Lee	D.C.	A.B. 1922, Randolph-Macon College	D.C.
		Garner, William I.	Ill.
		Garren, Hollis Lester	D.C.
		Garttson, Everett Bruce	N.C.
		Garrett, Anthony Matthew, Jr.	Mo.
		Garrett, Celeste Catherine	N.Y.
		Garrett, Marie Gertrude	
		B.S. 1936, New York University	

Garrett, Patricia Ann	D.C.	Gemmell, William Billings	Ill.
Garrett, Ralph H.	D.C.	Genna, Theodore Anthony	Conn.
Garrigan, Myles Robert	N.J.	Generelly, Richard Flavry	D.C.
Garrigues, Frances Aileen	D.C.	Genna, Joseph	N.Y.
Garrison, Charles Spurgeon	D.C.	Gensel, Audrey Dodge	D.C.
Garrison, Evelyn Virginia	N.Y.	Gentile, Gus Augustine	D.C.
Garity, Patricia Cummings	D.C.	Gentino, Wilma Doris	Conn.
A.B. 1949, College of New Rochelle		Gentry, Marguerite Wallace	Va.
Garson, Helen Perlman	D.C.	George, Althea	Md.
Garver, Lillian M. Gaye	D.C.	George, Betty Suggett	Tex.
Garvey, Doris Jean	D.C.	George, Mary	D.C.
Garwood, Emily Jean	D.C.	George, William C.	Ill.
Gasco, Arnaldo Roman	D.C.	Georgasos, Helen Carolyn	D.C.
Gaskill, Georgia Irving	D.C.	Georgion, George John	D.C.
Gaspardovic, Clara Apolina	Mich.	Gerace, Carman Joseph	Ohio
Gass, Charles	D.C.	Geran, Robert Kinney	D.C.
Gass, Edmund Cody	Tenn.	Gering, Joan	N.J.
A.B. 1937, Carson-Newman College		German, Mary K.	Md.
A.M. 1931, University of Tennessee		Germa, Demosthenes James	Va.
Gates, Aldina Scifie	La.	Gersch, Harold Arthur	N.Y.
Gates, Almeda Helen	D.C.	Gershenow, Marilyn Golinto	D.C.
Gates, Doris Scifie	La.	Gerson, Elaine Freed	N.Y.
Gates, Nelson	D.C.	B.S. 1946, Pennsylvania State College	
Gaughan, John Vincent	Pa.	Gerson, Nathaniel Charles	Mo.
A.B. 1932, Villanova College		B.S. 1943, University of Puerto Rico	
Gaulden, Roberta	D.C.	Gerson, Sareen Epstein	Mo.
Gawant, Maxine H.	Nebr.	Gerstenfeld, Ann Helen	D.C.
Gay, Kathleen Lucille	Mass.	Gaston, Frances	D.C.
B.S. 1941, Mississippi State College		Gerstin, Marvin Joel	D.C.
for Women		Getter, Frank Harry	Pa.
Gayeshi, Niek Joseph	Mont.	Geusheason, Leo Eli	N.Y.
Gaynor, Robert Edward	N.J.	B.B.A. 1942, College of the City	
A.B. 1940, Rutgers University		of New York	
Gearhart, Helen Mae	Va.	Ghozlan, Mohamed Ibrahim	D.C.
A.B. 1946, University of Richmond	Va.	Ghysels, Rosalyn Maude	D.C.
Gebhardt, Paul Samuel	Ohio	Giampetroni, Yolanda Theresa	D.C.
Gebhardt, William Karl	D.C.	Giacomo, Joseph Peter	N.Y.
Gee, Edwin Austin	W. Va.	Gibbons, Anne Barbara	N.Y.
B.S. 1941, M.S. 1944, The George		A.B. 1942, Columbia University	
Washington University		Gibbons, Barbara Gill	D.C.
Gee, Genevieve Riordan	Pa.	Gibbons, Della Sue	Va.
Gee, Veronica Maria	Pa.	Gibbons, Murray F. Jr.	Mo.
Gehrke, Ruth Elizabeth	W. Va.	B.S. 1937, Central Missouri State	
Geib, George Albert	Miss.	College	
B.S. in C.E. 1916, University of		Gibbs, Betty Wilson	N.C.
Illinois		Gibbs, Dennis Marvin	D.C.
M.S. in Pub. Adm. 1916, University		Gibbs, John William	D.C.
of Southern California		Giblette, John Franklin	Mo.
Geier, Clara S.	D.C.	Giblin, Richard Vincent	Md.
B.S. in Ed. 1944, Boston Teachers		Gibson, Ervin Dewitt	Ill.
College		A.B. 1927, Northeastern Oklahoma	
Geier, Conrad Schroeder, Jr.	Va.	Agricultural and Mechanical College	
Geizer, George Joseph	D.C.	Gibson, Gloria Galda	D.C.
Geizer, Herbert George	Wis.	Gibson, Jack Morris	D.C.
Geizer, Herman	N.Y.	Gibson, James Wallace	Va.
B.B.A. 1948, College of the City of		B.S. 1941, Hampden-Sydney College	
New York		Gibson, William Wilson, Jr.	D.C.
Geizer, John H.	Va.	Gibson, Miriam Elizabeth	Va.
A.B. 1929, The George Washington		Giddings, Merlin Ernest	Md.
University		Giese, Ruth Tann	Calif.
Geisbert, Betty Lee	Va.	A.B. 1944, University of California	
Geissler, Felix Dietzmann	Md.	Gifford, Yale Wesley	Kans.
A.B. 1933, Lynchburg College		Giglio, Nancy Ida	Md.
Gekker, Paul Abraham	D.C.	Gilbert, Paul Edward, Jr.	D.C.
Gelb, Sara Jane	Mass.	Gilbert, Richard Stanley	Calif.
Geller, Ferdinand Ross	D.C.	Gilbert, Stanley Ormand	W. Va.
Geller, Galen Stearns	Calif.	Gilbertson, Harris Clayton	D.C.
A.B. 1936, Occidental College		M.S. 1918, University of Iowa	
A.M. 1940, University of California		Gilbertson, Kenneth Gordon	Md.
Gellman, Adeline Evelyn	D.C.	A.B. 1940, Iowa State Teachers	
A.B. 1940, Hunter College		College	
A.M. 1942, Marshall College		Gilchrist, Grace Margaret	Mo.
		Gildenhorn, Blanche	D.C.



Gilfix, Roy Hart	Md.	Glenn, M. F.	Va.
B.S. 1944, University of Maryland		A.B. 1931, Morehead State Teachers College	
Gill, Florence Traylor	Va.	Glenn, Rosemary	N.J.
Gill, Grover Bache, Jr.	D.C.	Glesner, John William	D.C.
Gill, Jean Marie	D.C.	Glime, William Warren	D.C.
Gill, John Worden	Va.	Glisson, Janet Maria	Va.
Gill, Laura Christine	Mich.	Glosser, Wallace Marcer	Calif.
Gilles, Anita Marie		Glover, Mary Butler	Mass.
A.B. 1944, University of Michigan		Glover, Sally Bland	D.C.
Gillerman, Jeanette M.	Mass.	Gloyd, Mary Caroline	D.C.
A.B. 1938, Wellesley College		Gluck, Robert Samuel	D.C.
Gillespie, Kenneth R. M.	D.C.	Glueck, Anitra Joyce	Mass.
Gillette, Bernice Ann	Mass.	Glushien, Anne Williams	D.C.
Gillette, Edith C.	D.C.	Glynn, Ernest Belter	Mass.
Gillie, Milton Allen	Wash.	Gudhersen, Raymond Paul	Iowa
Gilliland, Charlotte Jean	Ill.	Gudbey, Gloria Swanson	D.C.
Gillis, Harry Arthur, Jr.	Ohio	Guddard, Janetta Haynes	D.C.
A.B. 1942, Ohio Wesleyan University		Goddard, June Catherine	D.C.
Gillum, Elsie Althea	Va.	Godfrey, Eileen R.	D.C.
Gillum, Lester	Ky.		
Gilman, Elizabeth M.	D.C.	A.B. 1943, Trinity College	D.C.
Gilman, John Richard, Jr.	Mass.	Godfrey, Francis Edwin	Va.
Gilmore, Barbara Anne	Md.	Godfrey, George Ward	Ark.
A.B. 1944, Hood College		Godfrey, Muriel Allene	D.C.
Gilmore, George Weber	Mass.	Godfrey, R. U.	Va.
Gilray, Kathleen Alice	D.C.	Godman, Alvaretta Young	Va.
Gimbel, Shirley	D.C.	Godman, John Robert	
Gimble, Muriel	D.C.	B.S. 1933, Oregon State College	Cole
Ginder, Chester Littleton	Va.	Godsey, Eleanor Dorette	Md.
Gingell, Robert Arthur	Md.	Godsey, Katherine McBrien	
Gingell, Thomas Henry	Md.	A.B. 1928, University of Chattanooga	D.C.
Gingold, Malcolm Albert	D.C.	Godsey, Wanfred Samuel	Del.
Ginsberg, George	D.C.	Godwin, Lemeta	D.C.
Giovacchini, Joseph Martin	Utah	Goff, John Clifford	Md.
Giovannetti, Mary Florence	D.C.	Goff, Loyal Glenn	D.C.
B.S. 1914, Wilson Teachers College		Goforth, George Tuttle	Mass.
Grove, Mary	D.C.	Gugun, Katherine Theresa	D.C.
Gupson, Norma Ruth	Tex.	Gupette, Clarence Francis	N.Y.
Girdner, Doris Louise	D.C.	Goldberg, David	D.C.
Giser, Harold Walter	Mass.	Goldberg, Erika Lore	Va.
Gittan, Barbara Ann	Va.	Goldberg, George Milton	D.C.
Gittlin, Milton	D.C.	Goldberg, Harold	N.J.
Gittmans, Thomas Morton, Jr.	Md.	Goldberg, Irving	D.C.
Guliani, Virginia Lee	Ohio	Goldberg, Loretta Rosalyn	
A.B. 1945, Ohio University		A.B. 1936, New Jersey State Teachers College	
Giusta, Mary Eleanor	Md.		D.C.
Givens, Stuart Ray	D.C.	Goldberg, Phyllis	D.C.
Givens, Thomas Henry	D.C.	Goldberg, Stanley	D.C.
Gladstone, William Ewart, Jr.	D.C.	Goldbery, Benjamin	
Glaser, Florence Rola	N.Y.	B.S. 1936, College of the City of New York	D.C.
Glaser, Herman	N.Y.	Golden, James Lawrence	D.C.
A.B. 1943, Brooklyn College		Golden, Ruth Marie	N.Y.
Glaser, Stanley	D.C.	Goldenberg, Leo	
Glasgow, Isadore	D.C.	B. Chem. in Eng. 1940, College of the City of New York	D.C.
Glass, Norman P.	Okla.	Goldenberg, Melvin Myron	D.C.
A.B. 1937, Oklahoma City University		Goldenberg, Muncy Arthur	D.C.
L.L.B. 1941, University of Oklahoma		Goldfield, Selma Joan	D.C.
Glass, Thomas Samuel	Tex.	Goldin, Milton	
A.B. 1942, Tulane University		A.B. 1938, Brooklyn College	Va.
Glasscock, Carolyn Fuller	D.C.	Goldman, Mildred	D.C.
Glasscock, James McCormick	Va.	Goldman, Shirley Ruth	N.Y.
Glasscock, Thomas Ray	Tenn.	Goldstand, Ronald Howard	Md.
Glattly, Ian	D.C.	Goldsbrough, Camilla Warfield	D.C.
Glazer, Martin	D.C.	Goldsmith, Fania F.	N.Y.
Gleason, Frederick James, Jr.	D.C.	Goldsmith, Herbert	
Gleason, Stephen Bernard	D.C.	B. Chem. Eng. 1940, College of the City of New York	N.Y.
A.B. 1910, The George Washington University		Goldsmith, Marion Ruth	Ill.
Glenn, Arthur James	D.C.	Goldsmith, Myron	
Glenn, Audrey Margaret	D.C.	B.S. 1919, Illinois Institute of Technology	
Glenn, Gloria	Fla.		
Glenn, Lewis Elwood	Iowa		

Goldstein, Harold T. B.S. 1932, M.S. 1933, College of the City of New York	N.Y.	Gore, Hugh Winfield Gorham, Pauline Callender A.M. 1928, Columbia University	N.J. Va.
Goldstein, Jack	N.J.	Gorman, Mary Bell	D.C.
Goldstein, Maxine Isabel	D.C.	Gorrell, Warren Archer	D.C.
Goldstein, Sidney Emanuel	D.C.	Gorrell, William David	Va.
Goldstein, Walter Carl	N.Y.	Goss, Elizabeth	Mass.
Goldy, Genevieve Rustvold	Va.	Gottlieb, Howard Bernard	Maine
Golob, Jeanette Malin	N.Y.	Gotschall, Gale Park son	Nebr.
Golob, Sylvia	N.Y.	Gottlieb, Alvan Lawrence	D.C.
Golovats, Esther	Del.	Gottlieb, Stuart Leonard	N.Y.
Golovin, Nicholas F. A.B. 1931, A.M. 1936, Columbia University	N.Y. D.C.	Gottlieb, Sylvia B.	D.C.
Gomez, Carlos M.	P.R.	A.B. 1933, Hunter College	Calif.
Gomez Ruiz, Luis F.	D.C.	Gottlund, Platon	Calif.
Gonzalez, Irma E. A.B. 1942, The George Washington University	P.R.	Gough, Susan Cornelia	Calif.
Good, Dennis Jr.	D.C.	Gould, Clayton Francis	Vt.
Good, Penny Roy	N.C.	Gould, George Marvin	N.Y.
Good, Charles Lloyd B.S. in Chem. Eng. 1942, Purdue University	Ind.	Gould, Stanley Kay	D.C.
Good, Dorothy Irene	Ohio	Grace, John Lamar, Jr.	Ala.
Good, Gloria Juanita	Va.	B.S. 1938, Howard College	Md.
Good, Norman Leese	D.C.	Grace, Walter Kenneth	D.C.
Goodell, Alfred Burrows	D.C.	Gracely, Frederick R. A.B. 1933, Drake University	
Goodbee, K. Om Dodge I.I.B. 1929, Loyola University	Md.	B.S. in E.E. 1934, Iowa State Teachers College	
Goodhope, Harriet Mae	Miss.	Grachow, Max	D.C.
Goodman, Lucy Pearl	Va.	Grady, Dora Katherine	D.C.
Goodman, Robert Jacobs A.B. 1947, M.S. 1948, Ph.D. 1941, University of Minnesota	N.J.	Grady, Florence Margaret Moran B.S. in Ed. 1939, Marywood College	D.C.
Goodman, Elizabeth Josephine A.B. 1938, Henderson State Teachers College	Ark.	Grady, James Theron	D.C.
Goodman, Harry M. A.B. 1939, Wooster Polytechnic Institute	Va.	Grady, Stafford Robert A.B. 1943, The George Washington University	Mch.
Goodman, Julian Byrn	Ky.	Graef, Robert H.	Md.
Goodman, Natalie	D.C.	Graff, Raymond Johnston	Va.
Goodman, Robert	Pa.	Graham, Edward Regis B.S. in Ed. 1940, California State Teachers College	Pa.
Goodman, Rhoda Patsy	D.C.	Graham, Ernest Brown	D.C.
Goodman, William Horsley	D.C.	Graham, Eunice Marguerite	D.C.
Goodrich, Charles David	D.C.	Graham, James Glenn M.S. 1932, University of Maryland	W.Va.
Goodrich, Edith Katherine	Va.	Graham, James W. Ward	D.C.
Goodrich, Ernest Whitmore A.B. 1935, College of William and Mary	D.C. Va.	Graham, Mary Anne	D.C.
I.I.B. 1938, The George Washington University		Graham, Robert Albary	Iowa
Goodrich, Richard Jamvel	Md.	Graham, Robt. Irene	Wis.
Goodrich, Kathleen Ste. Jeanne	Md.	Ph.B. 1941, University of Wisconsin	
Goodrich, Norman	D.C.	Granger, Patricia Laura	D.C.
Good, Herbert Stewart	D.C.	Grant, Charles Russell	Va.
Good, Louise Stewart	D.C.	Grant, Charman Ernestine	N.Y.
Good, Mary Frances A.B. 1945, Vassar College	D.C. Md.	Grant, Donald Henry	D.C.
Gooley, Irene Catherine	D.C.	Grant, James A. 1935	D.C.
Gordon, Ariel Phil	Conn.	Grant, Leon Marcellus	D.C.
Gordon, Anne I. Han	Calif.	Grant, Nancy Lee	Va.
Gordon, Bernard	D.C.	Grantham, Lee Powell, Jr.	D.C.
Gordon, Charles C. B.S. 1942, Southwestern University	D.C. Tex.	Grantham, Rodney Ernest B.S. in E.E. 1942, Purdue University	D.C.
Gordon, Clara Irene	Md.	Granum, Shirley Anne	Pa.
Gordon, Francis Guthrie, Jr.	D.C.	Grosser, Fred Ernest, Jr.	Md.
Gordon, Françoise	D.C.	Griffith, Walter Bernard B.S. in M.E. 1933, New York University	
Gordon, James Howell, Jr.	D.C.	Graves, Elton Boyd A.B. 1932, A.M. 1935, College of William and Mary	Va.
		Gravitt, Dwight Lee	N.C.
		Gray, Ann Amelia	D.C.
		Gray, Charlotte Amelia	D.C.
		Gray, James Louis	Md.
		Gray, Jane	D.C.

Gray, John Morris	N.C.	Grenda, Julianna Teofilla	D.C.
A.B. 1935, The Citadel		Gresham, Martha Eleanor	S.C.
A.M. 1945, The George Washington		A.B. 1940, Lander College	D.C.
University		Gridley, Cecil John, Jr.	D.C.
Gray, John Thomas	D.C.	Grier, Harold Thomas	D.C.
Gray, Lawrence J.	Va.	Griesemer, Edward Thomas	Md.
Gray, Robert Fremont	Ohio	Griffin, Amy Eastman	Wis.
Gray, Robert McDonald	Va.	A.B. 1942, Milwaukee-Downer College	
A.B. 1929, LL.B. 1932, University		Griffin, Kathleen Mary	Newfoundland
of North Carolina		Griffin, Madge Coleta	D.C.
Grayson, Howard Avery	D.C.	Griffin, Martha Tucker	Maine
Greaney, Mary Agnes	D.C.	Griffin, Mary McKay	D.C.
A.B. 1945, Trinity College		Griffin, William Turner	Va.
Greaver, Vernon E.	D.C.	Griffith, David John	N.I.
Green, Dallas Shadrach	D.C.	Griffith, Rubye Elizabeth	D.C.
Green, Doris Marcella	Va.	Griffith, Mary Cecelia	Va.
Green, Ellery Culver	Va.	Griggs, Betty Virginia	D.C.
Green, Enid Caldwell	D.C.	Grigsby, Roberta Josephine	Va.
Green, George Benjamin, Jr.	D.C.	Grill, Edith R. T.	N.Y.
Green, Herman Lee, Jr.	D.C.	A.B. 1941, College of the City of	
Green, Irene Bertha	Md.	New York	
Green, Louise Sheppe	Va.	Grill, Murray Myron	N.Y.
Green, Margaret Frances	Mass.	A.B. 1940, College of the City of	
Green, Oliver McBroom	D.C.	New York	
Green, Patrick	D.C.	Grille, Joseph Robert	Va.
Green, Shirley Mae	Va.	Grillo, Frances Joyner	D.C.
Green, Verda Belle	Va.	Grimes, Winfred Wright	Va.
Green, Vernice Joyce	D.C.	Grindle, George Joseph	D.C.
Green, Walter Irving	Md.	B.S. 1942, Harvard University	
A.B. 1937, University of Maine		Gritzunov, Ivan Andreevich	D.C.
Green, William Oliver	D.C.	Gruber, Doris Aline	D.C.
Greenbank, Richard Kelly	D.C.	Grigman, John Barry	Va.
Greenbaum, Evelyn	D.C.	Grilman, Annette	D.C.
Greenbaum, Helen Marx	D.C.	Grisholt, Edwin DeHaven	Pa.
Greenberg, Gloria	D.C.	A.B. 1941, Haverford College	D.C.
Greenberger, Helen Gertrude	N.Y.	Gross, Isador	
Greene, Allie Boatwright	D.C.	A.B. 1937, Brooklyn College	D.C.
Greene, Harriet Elizabeth	D.C.	Gross, Jesse Ralph	
Greene, John Van Dyke	D.C.	A.B. 1944, Hobart College	D.C.
Greene, Katherine Marguerite	D.C.	Gross, Jean Elizabeth	D.C.
Greene, Libby Longman	Va.	Grossman, Carmen Era	Neb.
Greene, Patricia Rose	Va.	Grossman, John Homer, Jr.	
Greene, Richard Louis	Md.	A.B. 1943, Hastings College	
Greene, Ruby Mae	N.C.	LL.B. 1947, University of Nebraska	N.Y.
Greene, Sandra Roberta	D.C.	Groveman, Joseph	Md.
Greenfield, George Albert	Idaho	Grover, George Maurice	
A.B. 1948, College of Idaho		B.S. 1941, University of Washington	Vt.
Greenhalgh, William Henry, Jr.	Va.	Grow, Barbara Mary	
Greenhouse, Leon	D.C.	A.B. 1941, Middlebury College	Va.
Greenhouse, Samuel W.	D.C.	Grubbs, Violet Davis	Va.
B.S. 1948, College of the City of		Gruber, Miriam Jean	
New York		B.S. 1942, State Teachers College,	
Greenlaw, Albert Henry	N.H.	Millersville, Pa.	D.C.
Greenspan, Lorraine	D.C.	Grudzinski, Estelle L.	Va.
Greenwald, Leanne Klein	D.C.	Grundstein, Nathan David	
Greenwald, Myron	D.C.	A.B. 1945, A.M. 1956, Columbia	
B.S. 1949, College of the City of		University	
New York		Ph.D. 1949, Syracuse University	D.C.
Greenwell, Robert Holmes	D.C.	Groskin, Floyd	Or.
Greenwood, Jane Louise	Minn.	Guell, Frances Robey	N.Y.
B.S. 1941, University of Minnesota		Gueran, Bernard	
Greenwood, Robert Ewing	Tex.	B.S. 1944, Louisiana State University	Tex.
A.B. 1944, University of Texas		Guerra, Alfonso Angel	D.C.
Ph.D. 1949, Princeton University		Guerra, Grace	Md.
Greer, Anne Carolyn	Va.	Guerra, Lourdes	D.C.
Greer, Thomas Jefferson	D.C.	Guerry, Mary Louise	D.C.
Greer, Phyllis Pearson	Conn.	Guerwitz, Leon	S.C.
Gregory, Ellen Louise	Md.	Guerwint, William Samuel, Jr.	D.C.
Gregory, Jesse Manning	Va.	Guest, Floyd Emory, Jr.	D.C.
Gregson, Robert Franklin, Jr.	Iowa	Guida, Doris Ann	D.C.
Greig, Aline Cettow	D.C.	Guida, James A.	
Greis, Howard Arthur	N.Y.	B.E.E. 1940, Pratt Institute	D.C.
Grenan, Marie Margaret	Md.	Guilbert, Mary Harriet	



# Students Registered

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Guiney, John Edward	Pa.	Hall, Evelyn	D.C.
Guinnane, Josephine Agnes	Ill.	B.S. 1941, West Virginia University	
Guntner, Ralph Thomas	Va.	Hall, Gene Lester	D.C.
Gullett, John Hungerford	Ill.	Hall, Gladys Ozell	Ala.
Gulley, Richard Lee	D.C.	Hall, Jonathan	D.C.
Guliver, Ann Desby	Md.	A.B. 1915, Rollins College	
Gullo, Mary Blanche	N.Y.	A.M. 1918, Gallaudet College	
Gunderson, Coleman Guy	Md.	Hall, Louise Elizabeth	Md.
Ph.B. 1923, Ripon College		Hall, Mabel Elizabeth	N.Y.
A.M. 1938, Northwestern University		Hall, Margaret Mary	Pa.
Gunnell, Donald West	D.C.	Hall, Marion Carolyn	N.Y.
Gupton, Artel Phil	Calif.	B.S. 1944, Cornell University	
Gustafson, Jean Anne	D.C.	Hall, Marie Oleta	Kans.
Gustafson, Joan Clara	D.C.	Hall, Mervin Gatewood	D.C.
Gustafsa, Mary Frances	Ill.	Hall, Phyllis Anne	D.C.
Gutheim, Marjorie Frye	Mass.	Hall, Ross Campbell	Ga.
A.B. 1937, A.M. 1938, Radcliffe College		Hall, Sheldon Franklin	Va.
Guthrie, Willie Elizabeth	Va.	B.S. 1916, Virginia Polytechnic Institute	
Gutierrez, del Rio Blance	P.R.	Hall, William Darlington	D.C.
A.B. 1931, University of Puerto Rico		B.S. in E.E. 1934, M.S. in E.E.	
Guy, Edith M.	D.C.	1915, E.E. 1940, West Virginia University	
Guye, Wyman Pilcher	D.C.	Hallam, Charles, Jr.	Md.
Guyman, Roy	Ill.	Halliday, Christina Rhoda	D.C.
		Hallman, Pauline Pearl	Va.
		Hallman, Ruby Louise	N.C.
		Hallowell, Constance Ida	Va.
		Halpern, Gloria	D.C.
		Halsted, Nancy Lee	Va.
		A.B. 1948, Roanoke College	
		Hamm, William Albert	Va.
		Hamade, Joe	Calif.
		Hamann, Frances Carl	Ill.
		Hamblin, Barbara	D.C.
		A.B. 1944, The George Washington University	
		Hamburg, Dorothy Gottschall	D.C.
		A.B. 1940, Bucknell University	
		Hamburg, Shirley Elaine	D.C.
		Hamburger, Ada Marna	D.C.
		Hamby, John Gordon	Ky.
		Hamilton, Edwin Earl	Wis.
		Hamilton, Elsie Marie	Va.
		Hamilton, James Russell	D.C.
		Hamilton, John Newcomb	Va.
		B.S. 1915, University of Maine	
		Hamilton, Margaret Anne	Ind.
		Hamilton, Verna Steines	Va.
		A.B. 1945, The George Washington University	
		Hamler, Della Rubye	Iowa
		Hamlin, Edmund Tarr	Wis.
		Ph.B. 1926, University of Wisconsin	
		Hamm, Charles Sherman	Mass.
		Hamm, Louis George	Va.
		Hamm, Norma Esther	Va.
		Hamman, Arthur Howard	Ill.
		B.S. 1915, J.D. 1918, Northwestern University	
		Hammanstone, Everett John	Mass.
		Hammer, David Edwin	Ill.
		Hammerly, George Preston	D.C.
		Hammerda, Nancy Jane	D.C.
		Hammond, Georgina Louise	Va.
		Hammond, Helen Lorraine	D.C.
		Hampton, Andrew F.	D.C.
		Hampton, Jewell M.	Wyo.
		Hampton, Sue Ella	D.C.
		Hammock, Lillian Aline	D.C.
		A.B. 1915, University of Chattanooga	
		B.S. in L.S. 1941, George Peabody College for Teachers	
Haack, Clifford William	D.C.		
Haack, Noradee Houser	N.Y.		
Haines, Louise Jeanette	S.D.		
Haas, Emily Rose	D.C.		
Haas, Marlys Hulda	D.C.		
Haas, Vernard Theodore	D.C.		
Haber, William Frederick	D.C.		
Habib, Edward T.	Pa.		
B.S. 1940, State Teachers College, Kutztown, Pa.			
Hacker, Donald Edward	Mich.		
Hackett, Marjorie Lee	D.C.		
B.S. 1940, University of Maryland			
Hackman, Robert Joseph	D.C.		
Haddad, Adele Sylvia	D.C.		
Haddox, Dallas Daryl	Va.		
Haessler, Luise Barnes	Ill.		
A.B. 1944, Vassar College			
Haffer, Hilda Thompson	D.C.		
B.S. 1918, Wilson Teachers College			
Haggerty, Daniel Leo	N.J.		
Haggerty, William Edward	Pa.		
A.B. 1940, University of Scranton			
Haight, Boyd J.	Calif.		
A.B. 1915, Stanford University			
Hager, Wilson Darand	D.C.		
Hager, Herbert Milton, Jr.	Va.		
Hair, Mary J.	D.C.		
Hair, Eunice Frances Nelle	Tex.		
Halberstadt, Nathaniel Herbert	N.Y.		
Halbert, Collie Elizabeth	Miss.		
A.B. 1914, Mississippi State College for Women			
Halbert, Dolores Agnes	D.C.		
Halbert, Virginia Witherspoon	D.C.		
Holdeman, Lloyd Timm	D.C.		
Hale, Roger Curtis	Kans.		
Hale, Louis Albin	Va.		
Hale, Margaret Mary	Pa.		
Hall, A. Craig	Conn.		
B.E. 1916, Yale University			
Hall, Alice Veily	Md.		
Hall, Bette Stocker	D.C.		
Hall, Betty Carolyn	Md.		
Hall, Blanche Ann	D.C.		
Hall, E. Juanita	D.C.		

Hanby, Barbara Louise	Md.	Harkless, Edna	Va.
Hance, Barbara Dean	D.C.	Harkness, William Dalzell	Va.
Hanchak, John Andrew	D.C.	Harlan, Daniel Dunaway	Ohio
Hanch, Nancy Rika	D.C.	Harlan, Marjorie Elizabeth	Md.
Hancock, Katharine I.	Calif.	Harley, Geraldine	Mass.
A.B. 1942, University of California		Harloff, William Carroll	D.C.
Hancock, Quinlan Harris	Va.	Harman, Albert Lawrence	D.C.
Handke, Frederick Henry	Md.	Harmel, Melvan Arthur	Kans.
Handy, Juanita Barbara	Vt.	Harmson, Betty Lou	W Va.
B.S. 1944, Trinity College		Harmon, Betty E.	D.C.
Hanes, Betty Ruth	Ohio	Harmon, Francis Lyman	Mich.
Hanes, Pessad Chisman	Va.	B.S. in E.E. 1930, Michigan State	D.C.
Haney, Charles Joseph	Pa.	Harmon, Gladys Poe	
Haney, Donald W.	Ill.	B.S. in Ed. 1941, State Teachers	
B.S. 1941, University of Illinois		College, Farmville, Virginia	D.C.
Haney, Florence Louise	Kans.	Harmon, Gregory U.	
Haney, Glenda Verdalee	Ala.	LL.B. 1912, University of Buffalo	
Harbord, Ann Carole	Va.	A.B. 1945, The George Washington	
Hankins, Mache G.	D.C.	University	Maine
Hankins, James Howard	Calif.	Harmon, Nellie Margaret	Md.
Hankes, Jeannette Rudisill	D.C.	Harmon, Robert Brooks	
Hankley, Nancy Jeanne	Va.	B.S. 1941, University of Maryland	D.C.
Hanna, Elmore Anne	D.C.	Harmstone, Richard Channing	N.D.
Hanna, Lase Edwards	D.C.	Harner, Evelyn Fay	Tex.
Hanna, Robert Emmett	D.C.	Harness, Charles Leonard	
Hanna, Rosella Bessie	D.C.	B.S. 1943, The George Washington	
B.Sc. 1934, Ohio State University		University	Tex.
Hannah, Clyde Brewer	Calif.	Harness, Nell W.	
B.S. 1945, United States Naval		A.B. 1947, Texas Christian University	D.C.
Academy		Harper, George Lester	Ala.
Hanowell, Para Jean Hall	Va.	Harper, Lucille U.	Md.
A.E. 1942, University of California		Harper, Maynard Stull	W Va.
at Los Angeles		Harper, Ronald Carl	D.C.
Hansberger, Frances Ethelyn	D.C.	Harpster, Ivan Louis	D.C.
Hassel, Roger Elmer	D.C.	Harpster, Lyndale Roberta	Vt.
Hansen, Audrey Clara	D.C.	Harrington, Jayne Ethel	Calif.
Hansen, Carl Lee Lee	D.C.	Harrington, Alice Corinne	
Hansen, Eldora Marie	Kans.	B.S. 1940, Florence State Teachers	
Hansen, Harold Woodrow	Va.	College	Iowa
Hansen, Herbert Orville	D.C.	Harrington, Joseph Michael	
Hansen, Jean D.	Utah	A.B. 1944, University of Iowa	D.C.
Hansen, John Sweetland	Md.	Harris, Anne Meade	D.C.
Hansen, Margaret Caroline	D.C.	Harris, Beverly Travers	Fla.
Hansen, Ruth Florence	Wis.	Harris, Charles I.	Calif.
Hansford, Verda Pauline	Kv.	Harris, David Edwin	D.C.
Hanshaw, Rose Leona	D.C.	Harris, Dorothea Harriette	D.C.
Hanson, Bradley Stuart	D.C.	Harris, Elizabeth Lea	D.C.
Hanson, Jean Lavonne	D.C.	Harris, Fred	Ga.
Hanson, Katherine Lillian	Va.	Harris, Herman David	
Hanson, Mars Wigg m	Va.	Harris, Julia W.	Ohio
Ph.B. 1934, University of Chicago		A.B. 1941, Bryn Mawr College	
Hanusik, Francis Dorothy	N.Y.	Harris, Katherine Sharp	Ohio
A.B. 1937, College of Mount St.		A.M. 1944, Ohio State University	
Vincent		Harris, Laina Kay	
Harde, Dudley Brown	D.C.	A.B. 1941, University of Cincinnati	Okla.
A.B. 1927, Yale University		B.S. 1942, Columbia University	D.C.
Hardenstein, Joseph S.	D.C.	Harris, Paul Austin	D.C.
Hardenstein, Doris Lucille	D.C.	Harris, Ruth Ann	Fla.
Hardie, Brad	Tex.	Harris, Ruth Helen	D.C.
B.S. in E.E. 1942, Agricultural and		Harris, Samuel Henry, Jr.	Pa.
Mechanical College of Texas		Harris, Zebb Jennings	D.C.
Hardman, Margaret Frances	D.C.	Harrison, Catherine Duff Duguid	D.C.
Hardman, Richard Kenneth	D.C.	Harrison, Charles Barry	Va.
Hardwick, Mary P.	Tex.	Harrison, David Warren	Va.
Hardy, Grace Louise	Md.	Harrison, Elizabeth Ann	D.C.
Hardy, Judson	Md.	Harrison, Haldon Roberts	D.C.
Hardy, Mervin Lucile	Ind.	Harrison, Hinda Hannah	D.C.
A.M. 1940, University of Chicago		Harrison, Isabel Allen	Va.
Hardy, William, Jr.	D.C.	Harrison, John Houston, Jr.	D.C.
A.B. 1929, The George Washington		Harrison, Joy Joan	Mass.
University		Harrison, Louis Pincus	
Hargrove, Freda Vernell	Ark.		
Hargy, Francis Robert	Md.		

Students Registered

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Harrison, Mark B.S. 1942, Northeast Missouri State Teachers College	D.C.	Hatton, Robert William	Md.
Harrison, Mary Louise	D.C.	Hauck, Paul Edward	N.Y.
Harrison, Nancy Byrd	Va.	A.B. 1941, A.M. 1942, Columbia University	
Harrison, Sarah Ann	D.C.	Hause, Benton Arlington	Conn.
Harrow, Lee Sulem	D.C.	Havell, Olga Marge	Va.
Harrow, Robert Lee	N.Y.	Havelock, Dorothea Marguerite	Canada
Harry, Charles Howard, Jr. B.S. 1932, University of Pennsylvania	Pa.	A.B. 1942, University of British Columbia	
Hart, L.B. 1940, Temple University		Haven, Herman	D.C.
Hart, Ella Frances	Mass.	Havens, William Dodge, Jr.	Md.
Hart, Helen	Ohio	Hawes, Julian	D.C.
A.B. 1943, Miami University		M.S. 1947, Harvard University	
L.L.B. 1945, Western Reserve University		Hawes, Madeline Taylor	Mass.
Hart, Kathryn D.	D.C.	Hawes, Peggy	Tex.
A.B. 1939, Duke University		Hawkins, Faure Lynette	N.C.
Hart, William Landrum	D.C.	Hawkins, Herschel Bernese	Ga.
Hart, William Surrey, Jr.	Calif.	Hawkins, Joy Abbott	D.C.
A.B. 1943, University of California at Los Angeles		Hawkins, Laura Sidney	Tex.
Hart, Wilson Ritter	N.M.	Hawkins, Robert Martin	Ohio
A.B. 1942, University of New Mexico		Hawthorne, Ann Amelia	Va.
Hartley, E. Boykin	Md.	Hawthorne, Charles Byrd	Va.
Hartley, Frances	Mass.	Hawthorne, Joyce Marie	Nebr.
Hartman, Doris Katherine	N.J.	Hawthorne, Marian Teresa	Pa.
A.B. 1940, Duke University		Haxes, Anson Mack	Mich.
A.M. 1941, Fletcher School of Law and Diplomacy		B.S.E. 1943, University of Michigan	
Hartman, Evelyn Ritchie	Va.	Hayes, Arthur James	D.C.
A.B. 1926, Goucher College		Hayes, James Albert	Maine
Hartman, Hester Hale	Va.	Hayes, James Deland	Va.
A.B. 1932, Baker University		Hayes, James Joseph	D.C.
Hartman, James F.	D.C.	Hayes, Joe	Va.
Hartman, John William	Md.	Hayes, Mabel Hannah	D.C.
Hartman, Roberta Smith	Ohio	Hayes, Marilyn Mae	Calif.
B.S. 1944, University of Toledo		Hayes, Stanley Wilton	D.C.
Hartman, Verna Louise	W Va.	Hayes, Thomas Joseph	Va.
Hartney, James Cuthbert	D.C.	Hayes, Webb Cook	Md.
Harton, Elizabeth Dorothy	D.C.	A.B. 1942, Yale University	
Hartung, Elizabeth		Haxley, Basil	Va.
A.B. 1937, The George Washington University		Haynes, Chester St. George	Md.
Hartwell, Georgia Winston	Minn.	Haynes, Claude Louis, Jr.	Va.
B.S. 1949, Hamline University		Haynes, Martha Frances	Ky.
Harvey, Lloyd L. Quill	D.C.	Haynes, Mary Esther	N.C.
Harvey, Martha Ann	Va.	A.B. 1920, Womans College of the University of North Carolina	
Harves, Robert Henry	D.C.	A.M. 1939, The George Washington University	
Harwood, Earl I.	Tex.	Haynes, Norma Edith	Va.
A.B. 1929, University of Texas		Haynes, Owens	Ky.
Harwood, Lewis Dale	Va.	Hays, Lawrence Augustus	D.C.
Hask, Charles Leap Hart	Mont.	Hays, Raymond LeRoy	D.C.
Haskell, Benjamin Paul	Md.	Hayward, Mildred	D.C.
B.S. 1942, University of Kentucky		Hayward, Robert Jay	Va.
Haslett, Annah Lee	Va.	Hazard, Florence Elizabeth	D.C.
Hass, Sara Landrum	Ga.	Hazel, Albertine McMurray	S.C.
Hase, Charlotte Rebecca	D.C.	Hazel, Robert Elvin	Md.
B.S. 1945, Temple University		Hazer, Paul John	Va.
Hasselback, Harold Leo	Wis.	Hendrick, Thomas W.	D.C.
Hassell, Charles Clement	D.C.	Hendli, Ruth Virginia	D.C.
Hassell, George Washington	Ga.	Healey, Alan Islen	Va.
A.B. 1940, University of Alabama		Healey, William H.	Va.
Hassen, Camile	D.C.	Heatin, Alva Tomlinson	Md.
Hastings, Delores Arlene	W Va.	Heath, Bettyellen	D.C.
Hastings, Dorothy Louise	D.C.	Heaton, Sister Lane Frances	D.C.
B.S. in Ed. 1943, State Teachers College, Oshkosh, Wisconsin	Wis.	Heathside, Dorothy Luttrell	Wis.
Hastings, Dwight Fellows	Md.	Hecht, Arthur	
Hatch, Elaine Fearnlex	Utah	A.B. 1942, The George Washington University	
Hatch, Francis Joseph	D.C.	Heck, Bertha May	W Va.
Hathcote, Martha Lunell	Va.	Heckman, Phyllis Buxbaum	D.C.
		Hedeen, Agnes B.	D.C.
		A.B. 1950, A.M. 1950, Northwestern University	



Hedges, Elizabeth Lee	D.C.	Henry, Anne Therese	D.C.
Hedger, Karolina Johanna	D.C.	Henry, Arthur Nicklaus	D.C.
Hedley, Edna Rome	Tenn.	Henry, Camella E. F.	N.Y.
Hedley, Robert Kenneth	Ill.	Henry, Carol Jean	D.C.
Hedner, Robert Woodrow	Md.	Henry, Dorothy	D.C.
Hedman, Harold Stephen	Ill.	Henry, Edwin Stanton, Jr.	D.C.
Hedner, Leonard Simon	N.Y.	Henry, Elizabeth Clara	Va.
Hedner, L. Marie	Tex.	Henry, James F.	W.Va.
Hedgarty, Dorothy Agnes	N.Y.	Henry, Patrick Wallace	Ma.
B.S. 1932, Fordham University		Hensley, Dale Johnson	D.C.
Hedbrun, Douglas E.	D.C.	Hensley, Margaret	D.C.
Hedmann, Jeanne Louise	Ohio	Henson, Edwin Nott, Jr.	D.C.
Hedra, Emma Lou	D.C.	Hepner, Ethel Ellen	D.C.
Hedman, Mary Esther	D.C.	Hepner, Gerhardt Irving	D.C.
Hedman, Thelma Sally	W.Va.	Herbert, Edward Leslie	D.C.
Hedman, Bernard	Pa.	Herbert, Kenneth Huddleston	D.C.
Hedman, Caroline	D.C.	Herbert, Willard Wayne	La.
Hedman, Marie Alice	N.Y.	A.B. 1941, Louisiana State University	Va.
Hedmann, Albert John	Ky.	Herd, Richard George	
Hedner, Will Maynard	Va.	B.S. 1924, Massachusetts Institute of Technology	
A.B. 1938, Oberlin College		Hergenrather, Charles Neale	Mo.
Heisler, George Thomas	Tenn.	Herman, Arthur W.	D.C.
Heinar, Laura	D.C.	Herman, Bernard K.	N.Y.
Heikimiam, Norris Carroll	D.C.	Herman, David J.	D.C.
Helesko, John Leonofsky	Pa.	Herman, Evelyn	D.C.
Heidenberg, Phyllis Lee	Iowa	Herman, Julius	Md.
Heizers, Ieneva Lorraine	Pa.	Hernandez, Rosella Ursula	N.C.
Hellerman, Rebecca Cornell		Hernandez, Angela Styers de	
A.B. 1937, Hood College		A.B. 1930, Salem College	Va.
Hellman, Ann Frances	Va.	Hernandez, Benjamin Francis, Jr.	P.R.
Hellman, Eugene Joseph	D.C.	Hernandez, Maria de Lourdes	
Hellmann, Carl Stuart	D.C.	B.S. 1945, The George Washington University	
Hellver, Richard George	D.C.	Hernandez, Raymond Sophie	D.C.
Helm, Effie	Ky.	Hernan, George Lucien	Va.
Helm, Kathryn	D.C.	Henold, Ann Carlton	D.C.
A.B. 1929, College of Wooster		Herrell, Elizabeth Adela	D.C.
Helm, Ruth Ellen	Va.	Herriman, Thomas Charles	Md.
B.S. 1940, University of Minnesota		Herring, Jane Miguel	D.C.
Helman, Philip	D.C.	Hersey, Rodney Earl	D.C.
Helman, Sara Jeanne	Ind.	Hertzlich, Abraham	
Helsel, William Gordon	Pa.	B.S. 1938, Columbia University	Va.
B.S. 1932, Dickinson College		Herwig, Anne Hildegarde	Mass.
Heltbriddle, Mary E.	Md.	Herwitz, Phyllis	D.C.
B.S. 1927, Temple University		Herzbrun, Philip Ingram	Md.
A.M. 1943, The George Washington University		Heslet, Mary Rhoda	D.C.
Heminger, Gladys Lavern	Kans.	Hess, Charlotte Rebecca	
Hempel, Richard Pierce	Va.	B.S. in Med. Tech. 1945, Temple University	Md.
Henault, Gladys Miller	Md.	Hess, George Frank	D.C.
B.S. 1942, Mary Washington College		Hess, Maurice Albert	Md.
Henderson, Abraham	D.C.	Hess, Walter Eugene	
B.S. 1919, College of the City of New York		A.B. 1924, Gettysburg College	
Henderson, Helen Neel	D.C.	A.M. 1930, University of Wisconsin	D.C.
Henderson, Nancy Lee	Va.	Hesse, Arlene Martin	Md.
Henderson, Russell Stewart	D.C.	Hesse, Beatrice Ruth	N.Y.
Hendson, Owen William	Va.	Hessing, Harold	D.C.
Hendrick, Shirley Luise	Va.	Hession, Anne Croston	D.C.
Hendrickson, Joseph Theodore	Pa.	Hession, John Joseph	
Hendrix, Grace B.	D.C.	A.B. 1935, Harvard University	
Hendrixson, Earl Cliff	Va.	Ed.M. 1916, Boston Teachers College	Mass.
Henegar, Harold H.	D.C.	Hester, Ethel Claire	Tex.
Henesy, Gregory Thomas	D.C.	Hester, James Gordon	
Henesy, Thomas Joseph	D.C.	A.B. 1935, Southwest Texas State Teachers College	D.C.
Henkel, William Curtis	Va.	Hester, Jean Hamilton	Pa.
Hennesy, Florence Marie	S.C.	Hetrick, Carolyn Anne	D.C.
B.S. 1943, College of Charleston		Hewgill, Paul John	Va.
Hennings, Josephine S.	D.C.	Hewitt, Clifford Adelbert	Ill.
Hennings, Vilma	Mo.	Hewlett, Glenn	
A.M. 1913, Washington University			
Henriksen, Essie Audrey	Oreg.		
A.B. 1920, University of Oregon			

Hexter, David Benjamin	Md.	Himes, Leonard W.	D.C.
A.B. 1930, West Virginia University		B.S. 1928, Carnegie Institute of Technology	
L.L.B. 1933, Harvard University		Ed.M. 1942, University of Pittsburg	
Hibben, Charles P.	Mich.	Himes, Vera Cronquist	Minn.
A.B. 1942, Dartmouth College	D.C.	Hines, William Albert	Tenn.
Hibber, Phyllosan	Md.	Hinkson, Ruth	Md.
Hickey, Emma Jeanne	Miss.	A.B. 1942, Phillips University	
Hickey, Mary Louise	Wis.	Hinsdale, Charles Edwin	N.C.
Hickey, Thomas James	D.C.	A.B. 1940, University of North Carolina	
Hicklin, William Hugh	D.C.	Hintze, Arthur Harris	Md.
Hicks, John Wilber, Jr.	D.C.	Hippler, Harry Leonard	Va.
B.S. 1944, Fairman University		Hirakawa, Anna Toshiko	N.M.
Hicks, Louis Edward	Md.	Hirsch, Chester Leo	N.J.
Hida, Lemmings Wirted	Ohio	A.B. 1941, Rutgers University	
Higgins, Frank Victor	Va.	A.M. 1942, Columbia University	
B.S. 1941, Bradley Polytechnic Institute		Hirsch, Gladys Elson	Md.
M.S. 1944, Texas College of Arts and Industries		A.B. 1940, Hunter College	
Higgins, Helen	Va.	Hirsch, Ruth	N.Y.
Higgins, Hilliard Vanus	D.C.	Hirsch, Salomon Liephrid	D.C.
Higgins, Shawn Dorsey	D.C.	Hirschman, Max Abraham	D.C.
Higginson, Helen Rose	Va.	B.S. 1948, M.S. in Ed. 1949, College of the City of New York	
Hild, Amelia Ruth	D.C.	Hirsch, Marshall Batarn	D.C.
Hilborn, Charles Oakley	D.C.	Hirst, Anne Heston	Va.
Hilborn, Nell Ruth	Ga.	Hixson, Norman Irving	Va.
Hilbert, Arthur Lander	D.C.	A.B. 1942, Illinois Wesleyan University	
Hildreth, David Melvin	D.C.	Hitchcock, Audrey Townsend	D.C.
Hildreth, Sherman Curtis	D.C.	Hitchings, Edna Susan	D.C.
Hilgenbrant, George Miller	Ill.	A.B. 1924, M.S.S. 1928, Western Reserve University	
Hill, Albert Benjamin	Md.	Hite, Winston Martin	Va.
Hill, Donna Marie	D.C.	Hites, Zebulon Weaver	N.C.
Hill, Edward Weathers, Jr.	Md.	Hitz, Frederick W., Jr.	Pa.
Hill, George Edward II	Conn.	B.S. 1939, Pennsylvania State College	
A.B. 1943, Wesleyan University		Hitzel, Mary Louise	Md.
Hill, George Richards	D.C.	Hively, Edward Lee	Md.
Hill, Jane Margaret	Ohio	B.S. 1944, University of Florida	
B.S. in Ed. 1940, Ohio State University		Hix, Ernest Theodore	Va.
Hill, Joe Bernard, Jr.	Va.	Hix, Jane Hutchinson	D.C.
Hill, Katherine D.	Va.	Hix, Richard Charles	Calif.
A.B. 1944, Adelphi College		Hixson, Wilma Pearl	D.C.
Hill, Mabel Olena	Miss.	Hirschberg, Frederick M.I.	N.Y.
B.S. 1943, Mississippi State College for Women		Ho, Iseng Jen	D.C.
Hill, Marjorie Elizabeth	Md.	Ho, Lien Yu	D.C.
B.M. 1941, Detroit Institute of Musical Art		Hoad, Fred Albert	Canada
Hill, Mollie Brazie	W.Va.	Hoad, Helen	D.C.
A.B. 1943, Vassar College		Hogg, Irving Charles, Jr.	D.C.
Hill, Mollie Letitia	D.C.	Holland, Ralph, Jr.	Calif.
Hill, Patricia Ann	D.C.	Hobbs, Edna Annette	
Hill, Suzanne	Md.	Hobbs, James Arthur	Va.
Hill, Wayne Kemble	D.C.	Hobbs, Robert Mack	Tex.
A.B. 1941, Dartmouth College		Hobbs, Ruby Loretta	D.C.
Hill, William Bethel, Jr.	D.C.	Hobson, Fenton James	D.C.
B.S. 1941, University of Virginia		Hobson, Ivan Leslie, Jr.	D.C.
Hildale, Robert C.	D.C.	Hodge, Harry Mangum	D.C.
Hildreth, Isabel Eleanor	Va.	Hodge, Verna Louise	Ala.
B.S. 1941, Mary Washington College		Hodge, William Rust	D.C.
Hillhouse, Andrew Fitch, Jr.	N.Y.	Hodges, Malcolm Francois	Vt.
B.S. 1943, Massachusetts Institute of Technology		Hodges, Margaret Jeanette	D.C.
Hilliard, Oma Mae	D.C.	Hodges, William Goebel, Jr.	Ky.
Hillis, John Thomas	Ind.	Hodgins, John Virgil	D.C.
B.S. 1944, United States Military Academy		Hoffer, Frances Elizabeth	Pa.
L.L.B. 1949, Indiana University		Hoffman, Bert Arthur	N.Y.
Hiltman, Jack Allan	D.C.	Hoffman, Bruce Nowell	Md.
Hiltman, William Pennings	D.C.	Hoffman, Fred Samuel	D.C.
A.B. 1925, Emory and Henry College	Pa.	Hoffman, Irving	N.Y.
Hilly, Mary Madeline		Hoffman, John Charles	D.C.
		Hoffman, Marjorie Agnes	Va.
		Hoffman, Miriam Mae	D.C.
		Hoffman, M. Yucenne	Va.

Hoffman, Norma Doris	Mass.	Holober, Melvin Charles	D.C.
Hoffman, Olga Hodel	N.Y.	A.B. 1940, The George Washington University	Okla.
Hoffman, Robert Douglas	D.C.	Holshouser, Dorothy Jane	D.C.
Hogan, Grace Eileen	Ill.	Holt, Albert Jack	Va.
Hogan, Harold Olmstead, Jr.	Va.	Holt, Cletis Leon	Va.
Hogan, Julia May	Md.	Holt, Eilyn Claire	Va.
Hogan, Patricia Collins	D.C.	Holt, Walter Andrews	Md.
Hogan, Randall James, Jr.	D.C.	Holter, Eleanor Sheeler	
Hogenson, Beatrice Mabel	Utah	A.B. 1936, University of California at Los Angeles	N.Y.
A.B. 1933, University of Utah		Holthaus, Ida Mae	D.C.
Hogentogler, Emerson D.	D.C.	Holtsova, Antonina Ivanova	Va.
Hogfeldt, John Robert	Ill.	Holtz, Florence Kressfield	D.C.
Hoham, Fred Dixon	Ind.	Holtzman, Eleanor Sandra	D.C.
Hohlt, Charlotte Wilhelmine	Md.	Holtzman, Joseph	D.C.
Hoke, Julius Unverzagt	Pa.	Homesley, Wilburn Wade	Va.
B.S. 1940, Pennsylvania State Teachers College, Shippensburg		Honickel, John Clark	Va.
Holben, Ray Glenn	D.C.	Honabach, Elmer Wilson	D.C.
Holben, Raymond Clifford	D.C.	Honey, Rene Agatha	Pa.
Holcomb, Frederick Murree, Jr.	D.C.	Honnickel, John Clark	Va.
Holcomb, Harmon Tyler	D.C.	Hood, Charles Perry	Md.
Holcombe, William	Ala.	Hood, Courtney Clark	Va.
Holden, Elizabeth	N.Y.	Hook, Beverley	N.Y.
Holden, Kay	Va.	Hook, Dorothy Meryl	Va.
Holdstock, Henry Bruce	Calif.	Hooks, Lance G.	D.C.
A.B. 1939, The George Washington University		Hooper, Irene Claire	Pa.
Holford, Bond Larry	D.C.	Hooper, Melvin Dale	Pa.
Holladay, Don Thomson	Va.	Hoopingarner, Ann Milner	Va.
Holland, Alan Randolph	D.C.	A.B. 1926, Indiana University	Wyo.
Holland, Alice	D.C.	Hooppaw, Jacqueline Hannah	Pa.
Holland, Alton David	Md.	Hoover, Charles Rudolph	D.C.
Holland, Beryl Jacqueline	D.C.	Hoover, Elizabeth Jeanne	Va.
Holland, James Edwin	Tenn.	Hoover, Ernest David	N.Y.
Holland, Roderick John	N.C.	Hoover, George Allan	
Hollenman, Hartzel Dirk	D.C.	Hoover, James Dawson	
Holleran, Charles Francis	D.C.	A.B. 1937, Haverford College	D.C.
Holley, Charlene	D.C.	A.M. 1938, University of Wisconsin	Pa.
Holley, Charles Lyle	D.C.	Hoover, Mary Jean	D.C.
B.S. 1910, Oklahoma Northeastern State College		Hoover, Merle Vincent	D.C.
Holliday, Reynold Ross	Pa.	A.B. 1941, Susquehanna University	D.C.
Holliday, William Ross, Jr.	D.C.	Hope, Robert Stocks	D.C.
Holliman, Margaret Erskine	Va.	Hopkins, John Taylor IV	D.C.
Hollingshead, Robert Sullivan	D.C.	Hopkins, John Thomas, Jr.	Va.
Hollingsworth, Connor Wright	D.C.	Hopkins, Marguerite Stotts	
Hollingsworth, Jo Ann	D.C.	A.B. 1922, University of Nebraska	S.C.
Hollingsworth, Russell Kohner, Jr.	D.C.	M.S. 1931, Iowa State College	
Hollis, Jennie Clyde	Tex.	Hopkins, Mary Magruder	
A.M. 1936, University of Colorado		A.B. in Ed. 1936, University of South Carolina	Miss.
Hollister, Harriett Donalea	W.Va.	Hopp, Emerson F.	
Hollod, Adele	D.C.	A.B. 1927, Carleton College	D.C.
Hollon, Thomas Harry	D.C.	LL.B. 1922, University of Minnesota	Md.
Holloway, Jean Gordon	Va.	Hopper, Thomas Bradford, Jr.	Va.
Holman, Elizabeth Jeanne	Va.	Horan, Charles Miller	D.C.
Holman, Ellen Durkin	Md.	A.B. 1941, Western Maryland College	D.C.
Holman, Joseph Frederick	D.C.	Horen, Morton Elliott	D.C.
Holman, Mary Gilliland	D.C.	Hores, William Ralph	D.C.
Holman, Walton	Tex.	Horn, Edith Mattison	D.C.
Holmberg, Rose Marie	D.C.	Horn, Grace Marie	
Holmes, Doris Wright	D.C.	Horn, Henry Joseph	Tex.
Holmes, Frances Jean	D.C.	B.S. 1941, Lehigh University	D.C.
Holmes, Marquerite Lynette	Wis.	Horn, Howell Farley	D.C.
A.B. 1945, University of Wisconsin		Hornanlian, Mary Aprima	Va.
Holmes, Nell Elizabeth	Tex.	Horne, Jane Frey	
Holmes, Rita Jane	W.Va.	Horne, Lucille Foster	Va.
A.B. 1945, The George Washington University		B.S. 1940, Radford College	Ind.
Holmes, Robert Denzler	Ohio	Horne, Mary Loretta	Okla.
Holmes, Robert Reynolds	D.C.	Horne, Vivian Maxie	D.C.
Holmes, Roland Andrew	Md.	Horner, Ethel Eileen	Md.
B.S. 1941, American International College		Hornstein, Ida Edith	Md.
		Horowitz, Robert Sidney	Miss.
		Horton, Mary Snow	
		Horton, Norma Elizabeth	



Horwitz, Harvey	D.C.	Hoyt, Forrest Timothy	Ariz.
Hosinski, Angela Marie	Ind.	L.L.B. 1939, The George Washington University	
Hoskinson, Lura Dean	Va.		
Hossack, John Edward	N.J.	Hoyt, Wilson Dow	Wis.
B.S. 1945, Worcester Polytechnic Institute		A.B. 1940, Stanford University	
Hosley, Nora Elizabeth	Va.	Hronek, Robert Louis	D.C.
B.S. 1927, State Teachers College, Harrisonburg, Va.		Hu, Chongwen	China
Hoselton, John Wallace	D.C.	A.M. 1945, University of Michigan	
Hosk, Don Ralston	Ohio	Huard, Raymond Francis	N.H.
B.Arch. 1939, University of Cincinnati		Hubbard, Jay Warren	D.C.
		Hubbard, Joetta	W.Va.
		Hubbard, Mildred Jean	Va.
		Hubbard, Myla	Ind.
Huff, Janet Mildred	D.C.	Hubbard, Dwight Lowell	D.C.
Houghtby, Florence Neoma	Mich.	A.B. 1915, San Jose State College	
A.B. 1944, University of Michigan		A.B. 1937, The George Washington University	
Houghton, Jennie Fitch	D.C.		
Hock, Robin Hall	D.C.	Hubka, Albert Franklin	D.C.
Hosner, Carol Janice	D.C.	Huck, Clifford James	Iowa
Hosner, Charles David	D.C.	Huddleston, Shirley	D.C.
Hosner, Grafton, Jr.	Wis.	Huebell, Irene Laura	W.Va.
Hosner, Irene Adele	Mo.	Hudock, Nancy Marie	Pa.
Hosner, Mary Jane	D.C.	Hudson, Francis Amelia	D.C.
A.B. 1944, Cornell University		Hudson, James Matthew	W.Va.
Hosmer, Nancy Virginia	Va.	Hudson, Louis	Tenn.
Hosmer, Mary Aprima	D.C.	Hudson, Margaret Christine	Va.
Howard, Harry James	D.C.	Hudson, Palmer Frank	D.C.
Howard, Alvin Ray	D.C.	Hudson, Russell Jackson	Ga.
Howard, Elizabeth Ann	W.Va.	Huey, Theodore Wood	Ala.
A.B. 1941, Pennsylvania College for Women		Huff, June Wilson	Md.
Howard, Hope Myrth	D.C.	Huffman, Clarence Taylor	D.C.
Howard, John B.	Mo.	Huffman, Randolph Edgar	Md.
Howard, Josephine Ther	N.M.	Huffman, Robert Ephraim	Ga.
A.B. and Dip. in Ed. 1929, A.M. 1930, The George Washington University		Huffman, William Ewart	Md.
		Huffman, William Francis	Pa.
Howard, Mary Frances	Va.	Hafford, Josephine Forbes	D.C.
Howard, Robert James	Md.	Hafford, Priscilla Frances	Va.
Howard, Russell K.	Tex.	Hafnagel, Frederica Louise	Ohio
Howard, Warren Hodgekins	Mass.	Hagles, Annie Mary	D.C.
B.S. 1944, Massachusetts Institute of Technology		Hagles, Brent Harland	S.C.
Howard, William Edwin	D.C.	Hagles, David Wild	Del.
Howard, William I.	Ky.	Hagles, Edna Coraeha	D.C.
Howe, Alice Margaret	Nebr.	Hagles, George Edward	Va.
Howe, Carol Wetner	D.C.	Th.B. 1941, Southern Baptist Theological Seminary	
Howe, Walter Gordon	Iowa	Hagles, Minnie Belle	Wash.
B.M. 1942, Columbia University		Haglev, Maudie Louise	Ill.
Howell, Harriet Lee	Va.	Hartens, Billie Buford	Va.
Howell, Jane Marie	D.C.	Hartens, Virginia Wetterspoon	D.C.
Howell, Long Davis	Miss.	Hartsh, Harriett Virginia Folger	Va.
A.B. 1944, The George Washington University		Hartsh, Jane Pennington	Va.
Howell, Virginia Elise	Miss.	Hull, Maury I.	Tenn.
Howenstine, Janice Davis	Va.	A.B. 1942, Southwestern University	
A.B. 1948, A.M. 1939, Ohio State University		Halse, Orla C.	Mo.
Howerton, Hugh King	D.C.	Halse, Helen Yvonne	D.C.
A.B. 1941, Kirksville State Teachers College		Halse, Hudson Dowling	D.C.
Howe, Donna Mae	Minn.	Holtmark, Seale Lee	Mo.
Howe, Betty Lou	Iowa	Homer, Charissa Josephine	N.J.
Howe, David McKay	D.C.	Hummel, Dorothy	N.C.
Howson, Irene South	D.C.	Hummer, Martha Jean	D.C.
Howe, Dorothea Patricia	D.C.	Humphrey, John Julian	D.C.
Hoylman, Alma Tingle	Calif.	B.S. 1928, New York State Teachers College, Buffalo	
Hoyme, Lucile Eleanor	Ala.	M.S. in Ed. 1939, St. Bonaventure College	
Hoyt, Betty Minns	D.C.		
	Md.	Humphreys, Nancy Claire	Md.
		Humphreys, James Pauster	Va.
		Hundhausen, Hellen Josephine	D.C.
		Hunsch, Toufic	D.C.
		Hung, Ching Chong	China
		A.B. 1927, San Diego State College	
		A.M. 1929, Columbia University	
		Hungerford, Beverly Joanne	Va.

Hunt, Aldridge Ellis, Jr. B.S. 1941, Harvard University	Mass.	Hutton, Sallie Bolton M.D. 1890, Women's Medical College of New York	D.C.
Hunt, Charles Maxwell B.S. 1934, The George Washington University	D.C.	Huyler, Lee Emerson	D.C.
M.S. 1940, Polytechnic Institute of Brooklyn		Hyatt, Elizabeth Louise	D.C.
Hunt, Leonard Marion	D.C.	Hyatt, Joan Rose	Fla.
Hunt, Donley Frayne	Wis.	Hyde, Donald	Idaho
Hunt, Louise Hart	D.C.	Hyett, William Frank	Va.
Hunt, Marilyn Maxine	Kans.	Hyman, Mary Jane	D.C.
Hunt, Marjorie Josephine	Ind.	Hymowitz, Helen	D.C.
Hunt, Winifred	N.J.	Hymowitz, Shirley Lorraine	D.C.
Hunter, Annette Louise	Kans.	Hyndshaw, Naomi Eulalia	Pa.
Hunter, Edward Eugene, Jr. B.S.C. 1941, A.M. 1942, Washing- ton and Lee University	N.C.	Hynes, Andy Stasley	D.C.
Hunter, Elizabeth Garland	Va.	Hynes, James Aubrey	D.C.
Hunter, Henry Foster	D.C.	A.B. 1940, University of Michigan	Tex.
Hunter, Jessie Fitzgerald	Va.	Hynes, Joseph Kenneth	Md.
A.B. 1941, Converse College		Hynes, Robert Edward	Minn.
Hunter, John Morris	Va.	Hyslop, Frances Lucy	
Hunter, Juliet Lehman	Va.	A.B. 1920, Macalester College	
Hunter, Lucian O.	Ky.		I
Hunter, Marilyn Jean	Va.	Iddings, Helen	Va.
Hunter, Mary Palmer	N.C.	A.B. 1919, Hanover College	Va.
Huntington, Rupert Sweetland	Pa.	Iddings, Lloyd Andre	N.Y.
Huntley, John Wright	N.Y.	Ide, Harriet Morgan	Va.
Huntton, Richard Edwin	D.C.	Iglehart, Meta Frick	Va.
Huntsberger, Carl Myron, Jr. A.B. 1941, Carnegie Institute of Technology	Va.	Iliff, Ramon Gilbert	Ill.
Huntsman, Carmen	D.C.	Immund, George Otto	Md.
Huppmann, Teresa Mary	D.C.	Imrie, George Wade	D.C.
Hurd, Harriet Jean	Ohio	Immerdauer, Bernard	D.C.
Hurckett, Walter	D.C.	Immerman, Franklin Robert	Md.
Hurley, A. Regina	D.C.	Ingersoll, Mary Jo	Va.
Hurley, Charles Warren	D.C.	Ingles, Ruth Curley	N.Y.
Hurley, Dorothy Jane	Md.	Ingraham, Anthony Arthur	D.C.
Hurley, Dwight Pennington	Md.	Ingram, Frances Baker	Va.
Hurley, Florence Olive	Md.	Ingram, Lawrence Warren	D.C.
Hurley, William Harlow	D.C.	Ingram, Lois	N.J.
Hurten, Kenneth Alwyn	D.C.	Inzco, Marie Catherine	D.C.
Hurst, Thomas Lee	D.C.	Ireland, Marion Esther	D.C.
Hurt, Harriet Swinn A.B. 1938, Emory and Henry College	Va.	Iribarren, Gloria del Carmen	N.Y.
Hurt, Mary Tex	Ala.	Irish, Robert Godwin	
Hurt, Thomas Leroy	Ky.	B.S. in A.E. 1940, Cornell Univer- sity	D.C.
Hurwitz, Hannah Evelyn	D.C.	Irvine, Don Hendley	Tex.
Hury, Julia	Conn.	Irvine, William C.	Iowa
Huse, Marie Bristor	D.C.	Irving, George Timothy	D.C.
Husing, Martin Edward A.B. 1917, St. Lawrence University	N.Y.	Irving, Nellie Smith	D.C.
Hussar, Edward John	D.C.	Irwin, Hubert Allyn	Nebr.
Hussey, Winifred June	D.C.	Irwin, Nora Bubb	D.C.
Husten, Benjamin F. B.S. 1943, The George Washington University	Va.	B.S. 1916, University of Nebraska	D.C.
Huston, Marjory Alice	Ohio	Isaac, Charles Martin	D.C.
Huston, Mary Elizabeth	D.C.	Isaacs, Claire Josephine	D.C.
Hutchinson, Harold	Ohio	Isaacson, Sheldon	D.C.
Hutchinson, Harold Keith	D.C.	Isaminger, June Annette	Pa.
Hutchinson, Howard Kenneth A.B. 1934, Miami University	Ohio	Isenberg, June Elizabeth	D.C.
Hutchinson, June Shelby L.L.B. 1948, Cincinnati Law School		Isenwood, Theodora June	Iowa
Hutchison, William Caruthers	D.C.	Ismail, Ahfa	Va.
Hutson, Sylvia Fay Lovenz	D.C.	Isom, Clifford Clinton B.S. 1939, Kansas State College	Md.
Hutt, Vincent Benjamin	Wis.	Iungerich, Alexander A.B. 1939, Duquesne University	Minn.
Hutton, Florence Adel		Iverson, John Roger	D.C.
		Ivey, Anne Elizabeth	
			J
	D.C.	Jack, Betty Bell	D.C.
	Va.	Jack, Ethel Grace	Iowa
	Tex.	A.B. 1918, Upper Iowa University	Md.
	D.C.	Jack, Jean Albert	
	Wis.	A.E. 1938, A.M. 1939, University of Nebraska	

Jackson, Billie Fahy	D.C.	Jaspen, Helen S.	Md.
Jackson, Blaine Carroll	D.C.	B.S. 1941, University of Michigan	
Jackson, Catherine	Va.	Jasper, Estelle Shirley	N.Y.
Jackson, Dorothy Ruth	D.C.	Jayne, Martha	Pa.
Jackson, Evelyn Leona	D.C.	B.S. 1940, Pennsylvania State College	
Jackson, Frank Holbrook	Md.	Jeffers, Mary Jane	D.C.
B.S. 1938, University of Maryland		Jeffers, Norton Lyndon	D.C.
Jackson, Frank Shields	D.C.	Jefferson, Jennie Marguerite	D.C.
Jackson, James Douglas	D.C.	Jefferson, Louis Wilson	D.C.
Jackson, John Waddell	D.C.	Jefferson, William Douglas	D.C.
Jackson, Margaret Early	D.C.	Jeffrey, Charles Thomas	D.C.
Jackson, Mary Shull	D.C.	Jenkins, Bess F.	D.C.
Jackson, Pauline Rhodes	Pa.	Jenkins, Elwyn Vernon	Ohio
Jackson, Pearl Patricia	N.Y.	A.B. 1939, Kenyon College	
Jackson, Robert McClelland	Mass.	Jenkins, Genevieve Briot	Md.
Jacob, Thomas Perry	Tex.	Jenkins, George Marion	D.C.
Jacob, Morgan Fitzpatrick	D.C.	Jenkins, Lula Belle	Md.
Jacob, Phyllis Eileen	Md.	A.B. 1944, Stanford University	
Jacob, Wavne Thompson	N.Y.	Jenkins, Margaret Matilda	N.C.
Jacobi, Herbert Jay, Jr.	D.C.	Jenkins, Phyllis Marie	S.C.
Jacobi, Wilma Jane	D.C.	Jenkins, Otis Everett	D.C.
A.B. 1941, Duke University		Jenkins, Sarah Annetta	D.C.
Jacobs, Bryna June	D.C.	Jerness, Frank Ward	D.C.
Jacobs, Dorothy Alice	Va.	B.S. 1933, Harvard University	
Jacobs, Harvey Allen	D.C.	Jennings, Charles Wesley	N.C.
Jacobs, Judith Frank	N.Y.	Jennings, Eileen Estella	Ind.
A.B. 1945, Antioch College		Jennings, Ellen Lucile	Va.
Jacobs, Milton	Pa.	M.S. 1927, University of Virginia	
Jacobsen, Charles Peter III	D.C.	Jennings, Mary Claire	D.C.
Jacobsen, Elizabeth Irene	Nebr.	Jensen, David Elden	Utah
Jacobson, Martin	D.C.	Jenson, Charlotte Lorraine	D.C.
B.S. 1940, College of the City of New York		Jentsen, Jacqueline Marie	D.C.
Jacobson, Norma Cooperstein	Del.	Jermason, Hene Minerva	N.D.
Jacobson, Odd Thomas	N.D.	Jernberg, Dale Leonard	Md.
Jacoby, Katherine	Mo.	Jervay, Mary Elizabeth	D.C.
A.B. 1941, Lindenwood College		Jeter, William Tyree	D.C.
Jacoby, William James, Jr.	D.C.	Jett, James Gordon	D.C.
Jacoway, Bess Leigh	D.C.	B.S. in Ed. 1942, Maryland State Teachers College	
A.B. 1918, Hendrix College		Jetton, Girard Revel, Jr.	D.C.
Jacks, Avar	D.C.	Jeweler, David Baer	D.C.
Jakes, Robert	Tenn.	Jewell, Fremont H.	Md.
A.B. 1928, Vanderbilt University		Jewell, Keith Robert	Md.
James, Charles Garner	D.C.	Jewell, Vernon Courtland	Va.
James, Elinor Gibbs	N.J.	Jobe, Milton Lockwood	Ala.
B.S. 1945, Limestone College		Joe, Louisa Anna Maria	Pa.
James, Elizabeth	D.C.	Joe, Martha Elizabeth	Pa.
B.S. 1940, Madison College		Joel, Lambert Savel	D.C.
James, Helen Naretta	D.C.	Johannessen, May Evelyn	Conn.
James, Howard Victor	Md.	Johanningmeyer, Frances Marie	Mo.
James, Raymond Walter	Va.	John, Wayne Wilburn	Va.
A.B. 1942, The George Washington University		Johns, Jacquelin Smith	D.C.
James, Robert Wilson	Va.	Johnson, Albert Sidney	S.C.
James, Shirley Edna	Ill.	B.S. 1936, University of South Carolina	
Jameson, Marie Eleanor	D.C.	Johnson, Augustus Clark	D.C.
A.B. 1910, Wellesley College		Johnson, Carl Richard Dean	D.C.
Jameson, Betty Mae	D.C.	Johnson, Charles Ray	D.C.
Jameson, Katherine Mae	D.C.	Johnson, Charles Taylor	D.C.
James, Elizabeth T.	Md.	B.S. 1942, American University	
A.B. 1925, Concordia College		Johnson, Charlotte Albertina	Minn.
Jann, Leo Benjamin	Md.	B.B.A. 1932, University of Minnesota	
Jansen, Jan Paul	Md.	Johnson, David Pierce	Ga.
Jansen, Louise Margaret	Minn.	Johnson, Donald Arthur	D.C.
A.B. 1933, B.S. in L.S. 1934, College of St. Catherine		M.D. 1945, The George Washington University	
A.M. in L.S. 1938, University of Michigan		Johnson, Doris Lendu	Wis.
Janson, Lars Edward	Va.	Johnson, Dorothy Reed	Md.
Jaracz, William Andrew	Mass.	A.M. 1916, Columbia University	
Jarrett, Charles Harold	Va.	Johnson, Elizabeth Robishaw	D.C.
Jarrett, James Donald	D.C.	Johnson, Elma Elvera	D.C.
Jarvis, Clara Louise	D.C.	Johnson, Elsie Nora	D.C.
		B.S. 1936, Wilson Teachers College	



Johnson, Frances Anne	D.C.	Jones, Compton	D.C.
Johnson, Frances Hilda	N.C.	Jones, Darrell Lloyd	Ta.
B.S. 1940, Woman's College of the		Jones, Donald Anthony	D.C.
University of North Carolina		Jones, Donald Lee	Pa.
A.M. 1943, Northwestern University		A.B. 1928, Pennsylvania State College	D.C.
Johnson, Gillard Bayne, Jr.	Ky.	Jones, Doris Jeanne	D.C.
LL.B. 1944, University of Louisville		Jones, Dorothy Clarissa	D.C.
Johnson, Glenn Leroy	Va.	Jones, Earl R.	N.Y.
B.S. 1940, University of Illinois		Jones, Edward Huss	D.C.
A.M. 1942, Michigan State College		A.B. 1937, Thiel College	Wash.
of Agriculture and Applied Science		Jones, Edward Taylor	Ind.
Johnson, Helen Sue	Ill.	Jones, Frederick Alan	
Johnson, Helen Webb	Va.	Jones, Harold Norman	D.C.
Johnson, Henry Belt	Va.	B.S. in M.E., Purdue University	Va.
Johnson, Howard Hamilton, Jr.	D.C.	Jones, Helen Noretta	D.C.
Johnson, Jack Dewey	N.C.	Jones, Helen Stuart	
Johnson, James Coombs	D.C.	B.S. 1936, Mary Washington College	D.C.
Johnson, Jessie Margaret	D.C.	Jones, Howard L.	Go.
A.B. 1944, The George Washington		Jones, Hubert Glenn	Va.
University		Jones, Hugh Howard	
Johnson, John Henry	D.C.	B.S. 1932, College of William and	
Johnson, Joseph B.	Tex.	Mary	N.C.
A.M. 1941, East Texas State College		Jones, James Elwood, Jr.	Va.
Johnson, Keifer Raye	Ala.	Jones, James Frederick	D.C.
Johnson, La Yvonne Ann	Md.	Jones, James Nelson	Ark.
Johnson, Leon Randolph	Va.	Jones, Jean	D.C.
Johnson, Leslie Gilbert	D.C.	Jones, Jean Pineo	
Johnson, Lois Roberta	D.C.	A.B. 1940, St. Francis Xavier	
Johnson, Loretta Imogene	D.C.	University, Nova Scotia	D.C.
Johnson, Lucy Traies	Va.	Jones, Lemuel Crouse	D.C.
B.S. 1944, Mary Washington College		Jones, Mabel Elizabeth	D.C.
Johnson, Mary Benson	D.C.	Jones, Martha June	P.R.
Johnson, Nellie D.	Iowa	Jones, Merriam Arthur	
Johnson, Nels Edward, Jr.	N.J.	A.B. 1933, University of North	
Johnson, Norton Steele	D.C.	Dakota	Okl.
Johnson, Paul Fogerty	N.H.	Jones, Olin Welborn, Jr.	
Johnson, Peter Herbert	D.C.	A.B. 1940, University of Oklahoma	N.J.
Johnson, Priscilla Ann	Md.	Jones, Paul Maurice	
Johnson, Ralph M.	Utah	A.B. 1938, LL.B. 1940, New	
B.S. 1940, University of Wisconsin		York University	D.C.
Johnson, Robert Blair	N.Y.	Jones, Richard Bourne	Va.
Johnson, Robert Eugene	Wash.	Jones, Robert K.	D.C.
Johnson, Rex Albin	D.C.	Jones, Roberta Champion	D.C.
Johnson, Ray Travis	Colo.	Jones, Sara Lequhart	S.D.
Johnson, Ruth Montgomery	Ill.	Jones, Shirley Ann	D.C.
Johnson, Theodore Robert	D.C.	Jones, Shirley Gene	Va.
Johnson, Virginia Mildred	Mass.	Jones, Virginia Walton	
Johnson, Wayne Gilbert	Va.	A.B. 1944, The George Washington	
Johnson, Walter Willis	D.C.	University	Md.
Johnson, Wilda Elaine	D.C.	Jones, Wilbur A.	Md.
Johnson, William Garnett	Md.	Jones, William Paul	
Johnson, Wilma Joyce	Kans.	A.B. 1942, The George Washington	
Johnson, Wilma Lee	D.C.	University	N.Y.
Johnson, Anita Maybelle	Va.	Jones, Cecelia C.	Mo.
Johnson, Emmett V.	N.C.	Jepkin, Mary Crews	Va.
Johnson, Hugh Buckner		Jordan, Allan William	D.C.
A.B. 1933, Davidson College		Jordan, Alvin B.	
Johnston, Martha Diven	Va.	B.S. 1943, United States Coast Guard	
Johnston, Mildred	Ark.	Academy	D.C.
Johnstone, Janice Bronson	Calif.	Jordan, Edward James	D.C.
Johnstone, Martha	D.C.	Jordan, George Sanford	England
Joiner, Richard	D.C.	Jordan, Harold Graham	D.C.
B.Mus. 1940, University of Rochester		Jordan, Lyman McElroy	Mia.
Joline, George	Va.	Jordan, Rena Claire	D.C.
Jonelis, Ardelle	Wis.	Jordan, Robert Paul	D.C.
Jones, Alice Gwendolyn	D.C.	Jordan, Stanley McHenry	Va.
Jones, Alice Mercer	Va.	Jordan, William Watkins, Jr.	Ind.
Jones, Benjamin Franklin, Jr.	Tenn.	Joseph, Barbara Anne	
A.B. 1927, Vanderbilt University		Joas, John Hobbard	
Jones, Benjamin Perry, Jr.	N.C.	A.B. 1926, Yale University	
Jones, Bernice Grace	N.C.	LL.B. 1931, University of Arizona	Pa.
Jones, Bertina Edna	R.I.	Joosi-Joe, Louise Anna Maria	
Jones, Claudia Hamilton	D.C.	A.B. 1946, The George Washington	
Jones, Coleman Bond, Jr.	D.C.	University	

Jossi-Joe, Martha Elizabeth	Pa.	Kantabutra, Bunphit	Md.
Joyce, James Thomas	Ind.	M.B.A. 1940, University of Chicago	
Joyce, Robert Murray	D.C.	Kany, Gergette Jeanette	D.C.
Judd, Dudley Frank, Jr.	Va.	Kaplan, Bertram W.	D.C.
Judd, Sally Frances	D.C.	Kaplan, Irving William	N.Y.
Judge, Francis Michael	D.C.	Kaplan, Jack Raymond	Md.
Judson, Abe James	D.C.	Kaplan, Paul Harold	D.C.
Jung, Mary Katherine	Ark.	Kaplan, Stanley Theodore	Kans.
Jungmann, Paul Edward	D.C.	Kaplan, William Xander	D.C.
Junker, Norman Amos	D.C.	B.S. in Ed. 1934, Northwestern	
Junkin, Mary Denny	D.C.	University	
Jurash, Peter Paul	D.C.	Kapneck, Elinor Adell	D.C.
Jurrow, Mae Wechsler	Va.	Kappel, Leon Harlow	Kans.
Jusino, Gilberto R.	P.R.	B.S. in Ed. 1938, Kansas State	
Jutras, Brother Dacian Augustin	D.C.	Teachers College	
A.B. 1927, A.M. 1929, La Salle		Karazikas, Evanthia Peter	D.C.
College		Karle, Betty June	Md.
Juvenal, Sally Glenn	D.C.	A.B. 1945, The George Washington	
Juvenal, Suzanne	D.C.	University	
		Karn, Annabelle Koontz	Va.
		Karnes, Lucille	N.M.
		B.S. 1934, Western Kentucky State	
		Teachers College	
		Karns, Frederick Phillip	Pa.
		B.S. in M.E. 1914, Massachusetts	
		Institute of Technology	
		Karna, Russ Samuel	Va.
		Karp, Jeanette	Md.
		Karpishek, Eva Antonia	Ohio
		Karr, Nola May	Ill.
		Karr, Philip R.	Md.
		Karsted, Jessie Walton	D.C.
		Kary, Reino A.	Wis.
		Kaskey, Paul	Calif.
		Kaslow, Clifford	D.C.
		Kassalow, Sylvia Dicker	N.Y.
		A.B. 1946, The George Washington	
		University	
		Kassoff, Arthur Irving	N.Y.
		A.B. 1946, The George Washington	
		University	
		Kasten, Marie Antoinette	Wis.
		A.B. 1908, A.M. 1911, University	
		of Wisconsin	
		Katchmar, Ann	D.C.
		Kater, Leonard E.	Pa.
		Kath, Lloyd Louis	Minn.
		Kattenburg, Paul Maurice	D.C.
		B.S. 1943, University of North	
		Carolina	
		Katz, Harold William	D.C.
		A.B. 1918, Brooklyn College	
		Katz, Julius Martin	D.C.
		Katz, Morris	N.Y.
		B.B.A. 1941, College of the City	
		of New York	
		Katzen, Sally Rose	D.C.
		Katzman, Herman Julius	N.Y.
		Kaub, Ralph	D.C.
		Kaufman, Clementine Lazaron	D.C.
		Kaufman, Lillian	Va.
		Kaufman, Lynne Anderson	D.C.
		A.B. 1940, Nebraska Wesleyan	
		University	
		Kaufman, Miriam	D.C.
		B.S. 1941, Wilson Teachers College	
		Kaufman, Nathan	Mass.
		Kause, Charlotte Ann	D.C.
		Kautt, Elmer Curtis	Va.
		B.S. 1920, University of Illinois	
		Kautz, Robert Myers	Md.
		Kavanagh, James Francis	D.C.
		Kavanagh, Ruth Jean	D.C.

## K

Kavcsak, Mary Helen	Pa.	Keljikian, John George	N.Y.
Kaver, Arthur Cornelius	D.C.	Kellar, Lura Thelma	D.C.
Kay, Joseph	N.Y.	A.B. 1940, Marshall College	Mass.
Kay, Lela Barbara	D.C.	Kelleher, Gertrude M.	Pa.
Kaye, Albert Francis	D.C.	LL.B. 1940, Northwestern University	Va.
Kaye, Eleanor Rita	Maine	Keller, Arvilla M.	
Kaye, Robert Adolph	N.D.	Keller, Elizabeth Beach	
Kashoe, Donald Ellsworth	Md.	B.S. 1940, University of Chicago	
Kaylor, Lewis Bateman	Va.	M.S. 1945, The George Washington	
Keahy, William	D.C.	University	
Kean, John Harper	D.C.	Keller, Glenn Isabel	Ohio
A.B. 1943, The George Washington		Keller, John Joseph	D.C.
University		Keller, Linda-Lillian Barbara	Ill.
Kean, Ruth Gray	D.C.	Keller, Mary Estelle	Mass.
Kean, Stephen Thomas	Iowa	Keller, Roger F., Jr.	N.H.
Keatney, Ann Louise	Pa.	Kelley, David Philip	D.C.
Keatney, Anna Ruth	D.C.	Kelley, Eva Frances	Mass.
Keatney, Helen Margaret	N.Y.	Kelley, James Ford	D.C.
Keatney, Joseph Leo	Md.	Kelley, Kathleen Genevieve	Va.
Kearns, Winifred Smith	N.Y.	Kelley, Raymond Morris	Md.
B.S. 1926, Northwestern University		Kelley, Therese Eleanor	Pa.
Keating, Rosemary Agnes	D.C.	Kelly, William	Md.
Keatinge, Betty West	Va.	Kellher, John Joseph	Mass.
Keaveney, Gertrude Ann	D.C.	Kellner, Dewey Edward	D.C.
Keck, Edwin William	Pa.	Kellon, Jeanne Elizabeth	D.C.
Kedon, Sylvia	D.C.	Kelson, Rose K.	D.C.
Keddy, Marian Burks	Va.	Kelly, Allan William	Mass.
A.B. 1945, Sweet Briar College		B.T.E. 1943, Lowell Textile In-	
Kee, Frances	W.Va.	stitute	
Kee, Richard Moy	D.C.	Kelly, Catherine Marie	D.C.
Keehler, John Kent	Md.	Kelly, Dorothy Zane	N.C.
Keefauver, Mabel Claire	Calif.	Kelly, Harry Joseph	D.C.
A.B. 1927, University of California		Kelly, Kenneth Owen	D.C.
at Los Angeles		Kelly, Lynn Oriol	N.C.
A.M. 1928, University of California		Kelly, Margaret G.	D.C.
Keel, Elmo Woodrow	D.C.	B.S. 1941, The George Washington	
Keel, Lewis Gibson	D.C.	University	
Keeler, Annette von Roy	Va.	Kelly, Mary Ann Cecilia	N.Y.
Keeler, Betty Blue	D.C.	Kelly, William Joseph	D.C.
Keeler, Lois Frances	D.C.	Kelsay, Laura Elizabeth	D.C.
Keen, Joe Gibson	D.C.	A.B. 1944, A.M. 1942, North Texas	
Keen, Owen Allen	Va.	State Teachers College	
Keen, Walter Hughes, Jr.	N.J.	Kelsch, James Riley	Ky.
B.S. 1947, United States Naval		Kelser, George Archibald, Jr.	Md.
Academy		Kemelhor, Robert Elias	N.Y.
Keene, Hedges Rodney	N.J.	Kemetick, Walter	D.C.
Keene, Juanita	D.C.	A.B. 1943, University of Chicago	D.C.
Keep, Philip Richard	Maine	Kemon, Solon Bandbridge	
B.S. 1939, Northeastern University		B.E.E. 1943, Cornell University	Va.
Keer, Naomi Ruth	Va.	Kemp, Betty June	Va.
Keesecker, Ward Weber	W.Va.	Kemp, Dorothy Bradford	
A.B. 1923, A.M. 1924, The George		A.B. 1944, The George Washington	
Washington University		University	
Ph.D. 1929, American University		Kemp, Virginia	N.C.
Keesling, Mona Jeanne	D.C.	Kemple, Thomas Edward, Jr.	D.C.
Kelauver, Evelyn Olive	D.C.	Kempster, Wanda Gold	Mo.
Kehr, Grace Headley	Ga.	Kendrick, Eileen	Va.
A.B. 1908, A.M. 1935, Indiana		Kendrick, Frances Elizabeth	D.C.
University		Kendrick, Lorene York	D.C.
Keil, Helen	D.C.	Kendrick, Patricia Ann	Okla.
Keiley, Margaret A.	Mont.	Kennedy, Asa Dutton, Jr.	
Keimig, Virginia Ann	Va.	A.B. 1931, University of Oklahoma	
Keiper, Florence Jane	Md.	LL.B. 1936, University of Michigan	D.C.
Keiser, Jere Vincent	Va.	Kennedy, D. Patricia	D.C.
B.S. in Chem. Eng. 1942, Carnegie		Kennedy, Joseph Bernard	D.C.
Institute of Technology		Kennedy, Marguerite Katherine	
Keishaw, John Aloysius	Pa.	A.B. 1933, Catholic College of Okla-	
Keisling, Mary Ruth	Tenn.	homa for Women	D.C.
A.B. 1915, Berea College		Kennedy, Oliver	D.C.
Keith, John B.	N.C.	Kennedy, Peggy Combs	D.C.
Keith, Leigh	Tex.	Kennedy, Robert Charles	D.C.
Kelby, Katherine	D.C.	A.B. 1934, Baldwin-Wallace College	
A.B. 1927, Trinity College			
Kelecher, Claire Gerard	Mass.		



Kennedy, Vivienne Helen	D.C.	Kikta, Mildred Sylvia	D.C.
Kennelly, Francis Xavier	D.C.	Kilbourne, William Roy	Va.
Kennelly, John McRae	Oreg.	Kilby, Katherine Killeen	D.C.
Kenney, Katherine Jane	Md.	A.B. 1927, Trinity College	
B.S. in Ed. 1940, University of Maryland		Kilby, Robert James	Va.
Kenney, Maude Cleste	D.C.	Kilduff, Malcolm MacGregor	Va.
Kenny, Mary Claire	D.C.	Kiley, Edward Vincent	Ohio
Kent, Charles James, Jr.	Va.	Kiley, Mary	D.C.
Kent, Jean Marie	Va.	Kilgore, Elinor Stuart	W.Va.
Kent, Mary Cuelia	Nebr.	Killeen, Joanne	D.C.
A.M. 1941, University of Nebraska		Killeen, Katherine Francis	D.C.
Kent, Sidney Edwin, Jr.	D.C.	Killen, Robert Jay	Pa.
Kent, Stephen Karland	Va.	B.S. 1940, Indiana State Teachers College	
Kenyon, Donald Edward	Va.	Killian, Rosemary	Calif.
Kenyon, Kenneth	D.C.	Killingsworth, Barbara Ann	Va.
A.B. 1943, The George Washington University		Killion, Richard Harvey	Okla.
Keough, Bernard Edward	Pa.	B.S. 1943, Oklahoma Agricultural and Mechanical College	
Kephart, Calva	Va.	Killy, Charles Peter	Mass.
Kephart, Robert Drake	D.C.	Kilmer, Elizabeth Buford	Va.
Keppel, Edith Sawin	N.Y.	A.B. 1944, Mary Washington College	
Kercoude, Arthur K., Jr.	D.C.	Kim, Mok	D.C.
Kerakoy, Paris Nicholas	D.C.	Kilpatrick, John Taylor	Okla.
Kerley, Thomas William	D.C.	B.S. 1945, University of Oklahoma	
Kerlin, John Herbert	D.C.	Kimball, Dorothy Rosemary	D.C.
Kera, Bernard Donald	Ind.	Kimball, Howard W.	D.C.
B.S. 1942, Indiana University		Kimberley, Margaret Lou	Iowa
Keroes, Elaine Jocelyn	D.C.	Kimbrough, Calvin	Tex.
Kerr, David Jay	Okla.	Kimche, Etta	D.C.
Kerr, Graham Stickley	D.C.	Kimmel, Vivyan Mary	D.C.
Kerr, Horace Eskew	D.C.	Kinelski, Eugene H.	Ind.
Kerr, Jean Fraser	D.C.	B.S. in Met. Eng. 1942, Purdue University	
Kershman, Leatone John	Md.	King, Billy Whitby	Tenn.
B.S. 1940, M.S. 1942, The George Washington University		King, Carl Francis	D.C.
Kershaw, Albert Farrow	Md.	King, Clyde Stuart	Kans.
Kershaw, John	Pa.	King, Donald Kyle	D.C.
Kershenbaum, Herbert	D.C.	King, Donald Perry	Ind.
Kerson, Bertha	D.C.	A.B. 1943, Indiana University	
Kesselman, Lawrence Mitchell	N.Y.	King, Drexel Irving	Md.
Kessinger, Charles Daniel	Md.	King, Eleanore Woodward	Va.
Kessinger, James Bennett	La.	A.B. 1934, A.M. 1939, The George Washington University	
Kessler, Virginia Hope	D.C.	King, Estyl R.	Iowa
Kester, Beryl Conklin	D.C.	King, Fred Wesley	Calif.
Kester, Donald Lee	D.C.	King, Janet Isabel	Mich.
Ketner, William Harry	Pa.	King, Jeannette Christopher	Va.
Keto, George John	Ohio	King, John Swinton	Mich.
Kettler, Milton Ellsworth	D.C.	King, Kathryn Levere	Ohio
Kex, Norman	D.C.	King, Mary	D.C.
Key, Norman	D.C.	King, Mary Campbell	D.C.
A.B. 1938, Harvard University		King, Nathaniel Ernest, Jr.	N.C.
Key, Robert Edward Lee	Ala.	King, Phillip Miskell	D.C.
Keyser, George Herbert	D.C.	King, Reta Marie	Pa.
Kibble, Blanche Irene	Ohio	A.B. 1944, West Virginia Wesleyan College	
Kibler, Godfrey Lawrence	Va.	King, William Bernard	Ind.
A.B. 1943, A.M. 1944, The George Washington University		Kingman, Allen Frederick, Jr.	D.C.
Kicherer, Harry Jay	Ill.	A.B. 1944, The George Washington University	
Kidd, Elnora Ludwig	D.C.	Kingsolver, Lowell Richard	Ind.
B.S. 1939, Wilson Teachers College		Kinney, David Bowen	Va.
Kidd, Harriet Jane	Va.	Kinney, Mildred Irene	N.C.
Kidd, Mary Betty	D.C.	Kinsel, Alan Edson	D.C.
Kiddon, Thomas	Pa.	Kinsey, Teddy Marie	D.C.
Kidston, Donald Ernest	Mass.	Kinsman, Robert Gordon	Md.
Kidston, Geraldine L.	Mass.	Kippis, Ernest	D.C.
Kiefer, Norvin Charles	Md.	Kipp, Mary Elizabeth	Minn.
M.D. 1938, University of Michigan		A.B. 1941, Hamline University	
Kierner, William Lewis, Jr.	Va.	Kipp, William Mastin, Jr.	D.C.
Kiernan, Jean Camille	D.C.	Kipper, Henry Haakon	D.C.
Kier, John Jacob	Ohio	Kiracofe, Arthur Hiram	Md.
Kight, William Dorsey	Va.	Kiracofe, Polly Jean	D.C.
Kikta, Dorothy Jane	D.C.		

Kirby, Elgin Bankhead	Va.	Knight, Alfred Bishop	Okla.
Kirby, James Wardlaw	S.C.	A.B. 1941, Washburn College	D.C.
A.B. 1945, The George Washington University		Knight, Gladys Tompkins	D.C.
Kirchheimer, Otto	D.C.	Knight, Harvey David	La.
J.D. 1928, University of Bonn		Knight, Marcel Viola	Md.
Kirchoff, Charles F.	Va.	Knight, William Nelson	D.C.
Kirkland, James Leonard	Fla.	Knipe, Ellen Graham	Conn.
Kirkpatrick, Nellie Marion	D.C.	Knipe, James L.	
Kirkwood, Lillian Hazelle	Mont.	Ph.B. 1926, A.M. 1934, Ph.D. 1940,	
Kirsh, Anne	Fa.	Yale University	
Kirtz, Frank Groom	Mo.	Knispel, Ruth Agnes	Minn.
A.B. 1943, M.S. 1944, Washington University		Knockey, Catherine Ann	D.C.
Kirwan, Gerald Bourke, Jr.	D.C.	A.B. 1939, American University	D.C.
Kisduchak, Joseph Thomas	Wash.	Knopp, Arthur Maxwell	D.C.
Kiser, Sharon Marie	Ky.	Knott, Barbara Elisabeth	D.C.
Kitchings, Katherine Louise	D.C.	Knott, Portia Jeanne	D.C.
Kitts, Susanna Burlingame	D.C.	Knotter, Lucien Theodore	Conn.
Klaasse, Robert Allen	Mich.	Knowers, Donald Arthur	Maine
Knapp, Gloria Marie	D.C.	Knowers, Isabelle Place	Va.
Klasermer, Phyllis Jane	R.I.	Knowers, Mary Frances	D.C.
Klassner, Benjamin	N.Y.	Knox, Catherine Russell	D.C.
Klebe, Henrietta	Ohio	Knox, Mary	D.C.
Klebba, A. Joan	D.C.	Knox, Robert Ormiston	Va.
B.S. 1933, University of Chicago		Kobel, Larry Thurlow	Ill.
Klee, Betty Scott	D.C.	Koblentz, Charles	
Kleser, Nina A.	Ohio	A.B. 1939, Central Y.M.C.A. Col-	
Klem, Alfred Kenneth	D.C.	lege, Chicago	Md.
Klem, Edward Edwin	D.C.	Koch, Kenneth Elmen	Va.
Klein, Franklin, Jr.	N.Y.	Koebe, Robert Charles	D.C.
A.B. 1938, Park College		Koehler, Frank William	
Klein, Greta Lee	D.C.	A.B. 1938, Miami University	N.Y.
Klein, Hannah Elsie	N.Y.	Koenig, Irving	D.C.
Klein, Irwin	N.Y.	Koenig, Roy William	D.C.
Klein, Loleta Gillespie	D.C.	Koenigs, Virginia Anne	Ohio
Klein, Margaret Mary	D.C.	Koepke, Karl H.	
Klein, Milton	N.Y.	B.B.A. 1940, Western Reserve	
Klein, Sandor	D.C.	University	Va.
Klein, Shirley Lynette	D.C.	Koepsell, Roland Martin	
Klein, Truman Stover	D.C.	B.S. in Eng. 1933, Michigan State	
Klein, William Joseph John	N.Y.	College	D.C.
Kleinberg, Edythe H.	N.Y.	Koester, Katharine L.	D.C.
B.S. 1945, New York University		Kohl, Francis Victor	Pa.
Kleinfelder, James Jesse	Va.	Kohler, Francis Leroy	D.C.
Klempner, Leah	Mass.	Kohler, Gene	Va.
Klempner, Paul Manuel	N.Y.	Kohler, Gloria Warnick	N.Y.
Klim, Anthony	D.C.	Koidan, Walter	
Kline, Elizabeth Anne	Md.	B.F.E. 1939, College of the City	
Kline, William Howard John	Va.	of New York	D.C.
Klink, Granville, Jr.	D.C.	Koki, Philip Soter	N.Y.
Klion, Lynette	Conn.	Kolesnikoff, Valentina Jakovlevna	
Klippel, Mary Jane	Wis.	A.B. 1940, Azerbaijan State	
Klockow, Elinor Ramolo	D.C.	University	
Klopfenstein, Karl Henry	Md.	A.M. 1949, The George Washington	
Kloos, Merne Williams		University	Ga.
A.B. 1929, Pennsylvania State College		Kolkedy, Joseph G.	D.C.
M.L. 1937, University of Pittsburgh		Kolker, Selma Rapoport	D.C.
Klostermann, Wolfgang Ekart	D.C.	Komai, Dan	D.C.
Klotz, Betty Jean	D.C.	Komarov, George Peter	Pa.
Kloze, Ida Iris	Md.	Komenda, Gladys Rita	D.C.
A.B. 1926, University of Maryland		Komp, Jack Maurice	Va.
Kluback, William	N.Y.	Konecs, Peter Michael	D.C.
Klumfoot, Clarence Reuben	Mich.	Konijn, Hendrik S.	D.C.
Knapp, Johnna Rachel	D.C.	Koons, George Hill	
Knapp, Joseph Martin	Pa.	Koontz, John Donovan	N.J.
Knapp, Kortryc Margaret	D.C.	B.S. 1939, Wilson Teachers College	N.Y.
Knaver, William Jerome	Fla.	Kopchinski, John Joseph	D.C.
Kneipp, Robert Frederick	D.C.	Kopek, John Longin	Md.
A.B. 1935, Duke University		Koppel, Heti Lore	Md.
Knezevich, Hugo	N.Y.	Koppelon, Florence Birdie	
A.B. 1944, Queens College	Okla.	Korab, Harry Edward	Nebr.
Knierim, Stanley Casper		B.S. 1943, University of Maryland	W.Va.
		Korb, June	
		Kordish, Margaret	

Korth, Pauline	D.C.	Kuck, Phoebe Hargy	D.C.
Koteen, Bernard Alexander	D.C.	Kuebler, Carol Carr	D.C.
Kotsakis, Thomas Alexander	Ill.	Kuebler, June Moore	Calif.
Kotter, F. Ralph	Utah	Kuhn, Mark Joseph	D.C.
A.M. 1940, The George Washington University		Kuhn, Sandra Beverly	N.J.
Kotzem, Helen Mildred		Kuhns, Helen Faustine	D.C.
Kouts, Herbert John Cecil	Kans.	B.S. 1944, Millikin University	
B.S. 1941, Louisiana State University	La.	Kuipers, Florence Gertrude	Mich.
Kouzes, Tom	Ill.	A.B. 1942, Calvin College	
Kovach, Eugene George	Mich.	A.M. 1943, University of Illinois	
B.S. 1943, M.S. 1944, Wayne University		Kukani, Anne	Ind.
Kovach, Ralph John	Ohio	Kuldell, Kathleen Muriel	D.C.
Koval, John Joseph	D.C.	Kull, Raymond Christian	D.C.
Koval, Margaret Mary	Pa.	Kullhem, Signe Helen	Colo.
Kowalski, James Andrew	Md.	Kullman, Paul Stephen	D.C.
Kozina, Marie Bessie	Nebr.	Kume, Lillian B.	Va.
Kraft, Catharine Elizabeth	D.C.	Kump, Jack Maurice	D.C.
B.S. 1943, University of Maryland		Kunkel, Daniel Herr, Jr.	Pa.
Kraft, Audrey Irene	N.Y.	Kuo, Irene Yuan	China
Kraft, Lester	Md.	A.B. 1949, St. John's University	
Kraft, Margot Regina	D.C.	Kupcek, Marion Louise	Pa.
Krahling, Allie Christine	D.C.	Kupjian, G. Maralyn	Md.
Kraller, John Edward	D.C.	Kurtz, Barbara May	Md.
Kramb, John Henry	D.C.	Kurtz, Harvey William	Md.
Kramer, Jane Patricia	Mich.	Kuske, Esther Juanita	Minn.
Kramer, John Charles	Pa.	B.S. 1922, Northwestern University	
Kramer, Sidney	Okla.	Kuzak, Helen A.	Pa.
Kramer, William Walter	D.C.	Kyak, Marv	Pa.
A.B. 1941, Brooklyn College	N.Y.	Kyle, Hugh Campbell	D.C.
Krash, Otto		Kyle, May Talbert	D.C.
Krasin, Robert Alan	D.C.	B.S. 1940, University of Maryland	
Krasny, John Friedrich	D.C.	Kyle, Patricia	D.C.
Kraus, Mildred	D.C.	Kvriazis, Christ William	D.C.
Krause, James Arthur	N.Y.	Kzianek, Florence Dolores	Pa.
B.A. 1941, University of Texas	Tex.	Kzukova, Titiana	Russia
Kravetz, Rhoda	Va.		
Krchivitsuy, Maroussia Boukoff	D.C.	L	
Krehbiel, Mary Lou	Ohio	LaBarr, Robert Victor	Va.
Krempin, Mamey Augusta	D.C.	Labissoniere, George Robert	Wash.
Kremsberg, Barrett G.	N.Y.	Labukas, Peter Paul	Pa.
Kreiser, Elvira Emma	Md.	Lacey, Kenneth King	D.C.
Krejci, William C.	N.Y.	Lacey, Louis Paul	D.C.
Krempasky, Dorothy Eleanor	Iowa	Lacovara, Nicholas John	N.J.
Krentzlin, Julie Anita	D.C.	LaCroix, James P., Jr.	Va.
Kressin, Mariam Ruth	D.C.	Lacy, Katie Lou	Mo.
Kressley, Clement D. J.	Md.	Ladd, Annette	D.C.
Kreul, Mary Magdalene	D.C.	Ladimer, Sophie H.	Va.
Krichmar, Robert Lawrence	D.C.	Ladsky, Bernice Edythe	D.C.
A.B. 1947, Boston University		Ladue, Dorothy Louise	Va.
Krieger, Eleanor Louise	Va.	Ladue, Sophia	D.C.
Kristen, Sara Jacobson	Md.	Ladue, Sophia	Tex.
Krock, Robert Temple	Calif.	Ladue, Sophia	
A.B. 1936, University of California		Ladue, Sophia	
Kronamer, Richard Ernest	N.I.	Ladue, Sophia	
Kronstadt, Henry Lippin	Va.	Ladue, Sophia	
Kronstadt, Nathan	D.C.	Ladue, Sophia	
Krotter, Lucien Theodore	N.M.	Ladue, Sophia	
Krowski, Ned Catter	D.C.	Ladue, Sophia	
B.S. 1945, American University		Ladue, Sophia	
Kruck, Charles William	Ohio	Ladue, Sophia	
Krueff, Darwin	D.C.	Ladue, Sophia	
Krueger, Janet Sheedy	Wash.	Ladue, Sophia	
Krueger, John Richard	D.C.	Ladue, Sophia	
Krueger, Norman Leland	Iowa	Ladue, Sophia	
A.B. 1941, McPherson College		Ladue, Sophia	
Kruer, Selma	N.D.	Ladue, Sophia	
Kruer, David	Va.	Ladue, Sophia	
Kruer, George	D.C.	Ladue, Sophia	
Kubach, Eva Rebecca	Mass.	Ladue, Sophia	
Kucirek, Dorothy Leah-Elaine	D.C.	Ladue, Sophia	
Kucirek, Ernest Frank	Nebr.	Ladue, Sophia	
Kucirek, Richard	Nebr.	Ladue, Sophia	



Lambert, Thorwald Anthonie	N.H.	Lannon, Thomas Joseph	D.C.
Lamberti, Mingo E.	Iowa	Lansdale, Mary Louise	D.C.
Lambros, Philip Russell	Fla.	Lansdown, Anna Ruth	D.C.
Lambros, Thedora	D.C.	Lantz, Andrew Lawrence	Md.
B.S. 1918, Wilson Teachers College		Lanuti, Leanova Marie	Pa.
Lamcaster, Chris	Md.	Lanza, Hugo Ballavon	D.C.
Lamm, Charlotte Armide	Md.	Lapham, George Sealy, Jr.	Pa.
Lammons, Thomas Miller	Miss.	Lapitsky, Mary	Pa.
Lamon, Charles Shaffer	Pa.	Lapitsky, Talle	D.C.
Lamore, Estelle Roxie	Md.	LaPoint, Mary Faith	N.Y.
LaMotte, Louis Howell	Md.	Larison, Donna Lee	Tex.
Lampher, Aloha June	Va.	Larkin, Constance Miriam	Md.
Landmesser, Stanley Thomas	D.C.	Larkin, Frank Yeakum	N.Y.
Lancaster, Dolores Alimore	D.C.	A.B. 1917, Princeton University	
Lancaster, Georgina Carmen	D.C.	Larkin, Mary Virginia	D.C.
Lancaster, Robert E., Jr.	D.C.	Larkin, Maureen	D.C.
Lancaster, Ruth Frances	D.C.	LaRocca, Marie Barbara	Md.
Lanckton, Myrtle Ann	D.C.	LaRose, James R. Lord, Jr.	D.C.
Landav, Barbara Anita	N.Y.	Larabee, Carlton Hardy	
Landenstam, Margaret Ann	D.C.	A.B. 1927, Clark University	
Landes, Susan	Va.	A.M. 1910, Harvard University	D.C.
Landis, Betsey Isabelle	Md.	Larrick, Dorothy Marcelia	Kans.
Landis, Harry Campbell	Md.	Larrick, Marilyn Ann	D.C.
Landis, Patricia Louise	D.C.	Larrick, Mary Lois	Md.
Lando, Grace Riegel	D.C.	Larsen, Nancy Joy	Ill.
C.P.H. 1940, University of Penn-		Larson, Arthur William	
sylvania		B.S. 1940, University of Illinois	
Landsberg, Madeline	N.Y.	M.S. 1942, Ohio State University	Calif.
A.B. 1940, Hunter College		Larson, Glenn Severn	
Landstreet, Louise Davis	Va.	B.S. 1945, University of California	D.C.
Lane, Andrew Albert	D.C.	Larson, John	N.D.
Lane, Annabell St. Clair	Tenn.	Larson, Mildred Irene	D.C.
B.S. 1940, Memphis State College		Larson, Roy Edward	
Lane, Bonnie Samuelser	Ind.	B.S. in R.E. 1942, Indiana Technol-	
Lane, Elizabeth Jane	D.C.	College	
Lane, Gynelle Marguerite	D.C.	Larson, John	Pa.
Lane, John Goethe	Fla.	Lash, Robert Frederick	Ill.
Lane, John McAllister	D.C.	Lasky, Bernard Joseph	D.C.
Lane, Marjorie Jane	D.C.	Lasky, Raymond	D.C.
Lane, Mary Ellen	D.C.	Lastra Amparo Aracil	P.R.
Lane, Ralph H.	D.C.	Lastra, Ivonne	
A.B. 1920, Capital University		B.S. 1945, University of Puerto Rico	D.C.
A.M. 1912, Ohio State University		Lathrop, Richard Pawnter	D.C.
Lane, Riley Burton, Jr.	Ark.	Latimer, Betty Jane	D.C.
B.S. in E.E. 1918, University of		Latimer, John Austin, Jr.	D.C.
Arkansas		B.S. 1910, Davidson College	D.C.
Lane, Robert Joseph	Conn.	Latimer, Miriam Peace	Mass.
A.B. 1938, Fordham University		Latino, Jennie Mary	N.Y.
A.M. 1941, Columbia University		LaTorre, Richard Robert	Md.
Lane, Walter Harold, Jr.	Va.	Lau, Louis Edward	N.Y.
A.B. 1943, The George Washington		Laubross, Marvin	D.C.
University		Laubscher, Ellen Margaret	
Laner, Frances J.	Oreg.	B.S. 1945, Wilson Teachers College	N.Y.
Lanet, Arthur R., Jr.	D.C.	Lauder, Robert Bruce, Jr.	D.C.
Laney, Culbert	Md.	Landis, Patricia Louise	Pa.
B.S. 1941, Utah State Agriculture		Lauffer, Martha Jane	Ill.
College		Lauchlin, Margaret Norbertine	D.C.
Lang, George Joseph	N.J.	Laughlin, Thomas C. G.	Mass.
Langdell, Robert Dana	Calif.	Lavender, Pauline Jeanne	Va.
Langs, Stanley Walter	Wis.	Lavin, Arthur George	Oreg.
Laubenbeck, Earl Henry Eidmann	Mo.	Lavin, Mary Margaret	D.C.
B.S. 1944, University of Missouri		Laxner, Raymond Alfred	Nebr.
Lankerman, Elaine Mildred	D.C.	Lavritson, Rena Cecelia	Md.
Langford, Elizabeth A.	D.C.	Law, Charles Christian, Jr.	Md.
Langholz, Ernest Frederick	D.C.	Lawless, Iov Louise	Va.
Langmack, Peter Halger	Md.	Lawless, William Jesselyn, Jr.	D.C.
Langston, E. Carolyn	N.C.	Lawlon, Henry William	D.C.
A.B. 1944, Brenau College		Lawrence, Dorothy Evangeline	Va.
Lanham, Aaron Benson	Va.	Lawrence, Malcolm	D.C.
A.B. 1941, University of Redlands		Lawrence, Nancy Jane	Va.
Lanier, Eugene Bertram	Okla.	Laws, Francis Monroe	Md.
B.S. 1938, Missouri Mines College		Lawson, Alfred Munk	Va.
Lanigan, Margaret Anne	D.C.	Lawson, Jan Lloyd	D.C.
Lankford, Homer Elliott, Jr.	Ala.	Lawton, Ellen I.	

Layer, Robert George A.B. 1943, Ohio Wesleyan University	Mich.	Lee, Robert Ollia Lee, Robert Yoon Sung A.B. 1944, Cornell University	Va. Hawaii
Layne, Della Virginia	D.C.	Lee, Shiu Lam	D.C.
Layne, Ennis Cecil, Jr.	Va.	Lee, Sydney Smith	D.C.
Layne, Ruth Lee	D.C.	B.S. in E.E. 1940, Georgia School of Technology	
Layos, Joseph Kenneth	Pa.	Lee, Virginia Welch	W.Va.
Layton, Billie Blanche A.B. 1942, Georgia State College for Women	N.Y.	A.B. 1930, The George Washington University	
Leach, Frances Netta	D.C.	Lee, Wendell H.	Md.
Leach, William O., Jr.	Okla.	Leech, Lou Ellen	D.C.
A.B. 1940, Oklahoma Baptist Uni- versity		Leet, James Edward	D.C.
Lealbetter, Guy Whitman	D.C.	Lees, Robert William	Md.
Leaman, John Henderson	D.C.	LeFebvre, Ernest Dolord	Conn.
Leaman, Margaret Louise	D.C.	LeFebvre, Pauline	D.C.
Leaman, Thelma Louise	D.C.	LeFever, Rosa Estelle	Va.
Leaman, Virginia Emily	D.C.	LeFevre, Jean Estelle	D.C.
Leann, Lester Walter	Pa.	Lefort, Henry Gerard	Md.
Leann, Normand Walter	D.C.	LeKoff, William Harold	Md.
Leasure, Frederick George B.S. 1930, A.M. 1931, Columbia University	D.C.	LeGallais, Elizabeth Buckley	Va.
Leath, Marie Kauffman	Va.	LeGars, Luella	D.C.
Leavell, Robert Hammett	D.C.	LeGosse, Bunny John	Va.
Leavell, William Alfred, Jr.	Miss.	Leggett, Margaret Carolyn	D.C.
Leberrott, Ruth Wellington	Mich.	Lehman, Charles Almon	Ind.
A.B. 1940, University of Michigan		Lehman, Dorothy Elizabeth	Mass.
LeBlanc, Donna	Ohio	A.B. 1938, University of Nebraska	
Leblanc, Robert William	Md.	Lehman, Elizabeth Stephen	Ark.
Lebowitz, Joseph Louis	Ohio	Lehman, Robert Frank	Wis.
Lebowitz, Mary K.	D.C.	B.S. 1943, Lawrence College	
Leclair, Jean Elizabeth	Okla.	Lehnard, Joseph Charles	Pa.
Leclerc, Marie	D.C.	Leib, Laura	Md.
Leclerc, Marie Jennette	Tex.	Leibel, Esther	D.C.
Leclerc, Theresa Ann	Maine	Leiderman, Nathan	Ill.
Leclerc, John Paul, Jr.	Va.	Leimbach, Leonard LaSalle	Mass.
Leclerc, Cecelia Marie	Mo.	A.B. 1945, Brown University	
Leclerc, William Henry	Mass.	Lein, Robert Oscar	D.C.
Leclerc, Anna Mae	D.C.	Leina, Charles Olaf	N.Y.
Lee, Alice	D.C.	Leina, Julius Edward, Jr.	D.C.
Lee, Andrew Jackson	Fla.	Leinster, Roy Luttrell	D.C.
Lee, Aurette Doris	Va.	B.S. 1911, United States Military Academy	
Lee, Belva	Idaho	Leiserson, Mark Whittlesey	D.C.
A.M. 1938, Columbia University		Leitch, Theresa Stevens	D.C.
Lee, Bernice M.	D.C.	Leiva, Carl Keith	Md.
Lee, Clara G.	Tenn.	Lekson, B. Miriam	Maine
Lee, Donald E.	Va.	Lemelman, Mark Eliot	D.C.
A.B. 1945, LL.B. 1945, The George Washington University		Lemire, Julianne	D.C.
Lee, Edward	D.C.	Lemisan, Elizabeth S.	Ark.
Lee, Ethel Adeline	Wis.	Lemler, Helen Doloris	D.C.
Lee, Eugenie Therese	Md.	Lemley, Paul Vance	D.C.
Lee, Gilbert Stanley	Oreg.	Lemmon, Kenneth Thomas	N.Y.
A.B. 1941, Stanford University		Lemoine, George Franklin	Va.
Lee, Harvey Atwood	Miss.	Lemon, Lyons Shady	Va.
A.B. in Govt. 1943, The George Washington University		Lemon, Zoe Marion	D.C.
Lee, Helen	D.C.	Lendestey, James Albaugh	Fla.
Lee, Jane Carlisle	Va.	Leongyel, Agnes	D.C.
Lee, Julia M.	Ga.	Lenkin, Natalie June	D.C.
Lee, Katherine Elizabeth	Va.	Lennahan, Charles Michael	Va.
Lee, Leonna Margaret	N.Y.	A.B. 1945, The George Washington University	
Lee, Leroy Linwood	Md.	M.S. 1942, Massachusetts Institute of Technology	
Lee, Lily Kawai Keui	Va.	Lenoff, Mary	Conn.
Lee, Lorraine Alma	D.C.	Lenoff, Sylvia	D.C.
Lee, Mabel	D.C.	Lent, David Winfield	D.C.
Lee, Marvin Shelby	D.C.	Leon, Helen Alberta	D.C.
M.S. 1937, West Virginia University	W.Va.	B.F.A. 1935, Miami University	
Lee, Merle	Idaho	Leonard, Catherine Hoover	D.C.
Lee, Miriam Lubitow	N.Y.	Leonard, Dorothy Virginia	Md.
Lee, Nancy	D.C.	Leonard, Elfriede Justine	D.C.
Lee, Robert	D.C.	Leonard, Harrison	D.C.
		Leonard, Jack	Oreg.

Leonard, Robert Sterling	Md.	Lewis, Armin Kessler	Md.
A.B. 1930, The George Washington University		Lewis, Billie Ruth	Tenn.
A.M. 1931, Harvard University		Lewis, Edward, Jr.	D.C.
Leonardo, Earl Samuel	N.Y.	Lewis, Edwin Joseph	D.C.
Leong-Way, Madeline Marion	D.C.	A.B. 1938, University of Western Ontario	
Leppanen, Helen Maria	D.C.	M.B.A. 1939, Northwestern University	
LeQueane, Jane Llewelyn	Va.	Lewis, Elizabeth Socorro	D.C.
Lerner, Anne Lois	N.J.	Lewis, Frederick Roland	Va.
Lerner, Leslie Albert	Pa.	Lewis, Helen Kathryn	Va.
Lesansky, William A.	N.Y.	Lewis, Hubert Edward	
B.B.A. 1942, College of the City of New York		A.B. 1943, University of Virginia	D.C.
Leslie, Barbara Mason	D.C.	Lewis, Jacqueline Melissa	D.C.
Leslie, Lester	Va.	Lewis, James William	
Lesser, Henry Manuel	D.C.	A.B. 1933, Maryville College	Va.
Lesser, Marilyn Irene	D.C.	Lewis, Jean Eulene	Ind.
Lester, Inez Mattie	Va.	Lewis, John Joseph	Va.
Lester, Robert Thomas	Md.	Lewis, John Wallace	Md.
Letow, Bernice Miriam	Md.	Lewis, Louise	D.C.
Leuchtmann, Netty	N.Y.	Lewis, M. Clara	Va.
Leushy, William Samuel	N.Y.	Lewis, Marion Ellsworth	Md.
A.B. 1927, University of Kentucky		Lewis, Marjorie Lucile	
Phar. Chem. 1931, Columbia University		A.M. 1933, University of Michigan	D.C.
Levander, Rena	N.Y.	Lewis, Movigue Pauline Josephine	Va.
A.B. 1943, Swarthmore College		Lewis, Nancy Lee	Mass.
LeVec, Pierre Henri	Mo.	Lewis, Robert Mitchell	
B.J. 1940, University of Missouri		A.B. 1945, Clark University	D.C.
Levenson, Edgar Leo	D.C.	Lewis, Sadie Notes	D.C.
B.S. 1943, University of Pittsburgh		Lewis, Seth	
Levenson, Judith S.	Va.	A.B. 1916, The George Washington University	D.C.
Levenstein, Myrtle S.	Va.	Lewis, Sydney	
Lever, Jacqueline Womack	Va.	A.B. 1940, Washington and Lee University	N.J.
Leveritt, J. P.	Md.	Lewis, Wilda C.	Conn.
A.B. 1942, Arkansas Agricultural and Technical College		Lexton, Mabel Harriet	Md.
Levich, Lucille Victoria	Colo.	Leyda, James Howard, Jr.	Mass.
Levick, Robert	D.C.	Leydon, James Andrew	D.C.
Levin, Alex Elihu	D.C.	Lhamon, Lucia Dean	D.C.
Levin, Floyd Dale	Wash.	Lianos, Jane Randell	D.C.
B.S. 1942, University of Washington		Liastra, Amparo Aracil	Mass.
Levin, Isaac	N.Y.	Libera, Rena Teresa	Pa.
Levin, Leon	D.C.	Lichter, David E.	
Levin, Norman	Md.	A.B. 1930, American University	N.Y.
Levin, Stanley William	D.C.	Lichtenberg, Marjorie	
Levine, Alvin Saul	D.C.	B.S. 1945, New York University	N.Y.
Levine, Daniel Bernard	D.C.	Lichtenberg, Max	Md.
Levine, Elizabeth Jane	Mass.	Lidford, John Albert	Mich.
B.S. 1942, Pennsylvania State College		Lieberman, Sally Rosalind	
Levine, Elmer Albert	N.Y.	B.S. 1936, Michigan State Normal School	D.C.
Levine, Helen D.	N.Y.	Liebow, Elliot	D.C.
Levine, Herbert Raider	N.Y.	Liebow, Esther Rachel	D.C.
A.B. 1941, Brooklyn College		Light, Bette	Tex.
Levine, Irving Abraham	D.C.	Light, Sylvia	D.C.
Levine, Lillie	N.Y.	Light, Virginia Gayle	D.C.
A.B. 1930, Hunter College		Lightcap, Earl Jacob, Jr.	D.C.
Levine, Solomon Meyer	D.C.	Lightman, Joseph Mantell	
Levinson, Monroe Joseph	D.C.	A.B. 1943, The George Washington University	Md.
Levinson, Treva Rose	Va.	Likely, Gwendolyn Dale	
Levitine, Eda	N.Y.	B.S. 1944, University of Maryland	D.C.
Levitov, Edith Sylvia	Va.	Liken, Robert Lee	Ark.
Levsky, William Sam	D.C.	Liles, Ruby Lee	Md.
A.B. 1927, University of Kentucky		Lillegren, Ervin James	Va.
Levy, Charles Kingsley	N.Y.	Lillegren, Lyle Kenyon	Va.
Levy, Harold Harris	D.C.	Lilliefors, Hubert Whitman	Pa.
Levy, Joel Victor		Lilly, Scott Barrett	Va.
B.S. 1912, College of the City of New York		Lilmer, Melville J.	
Levy, Nathaniel	D.C.	B.S. 1937, A.M. 1938, New York University	D.C.
Lewis, Anne	D.C.	Limparis, Gus Harry	
B. Dip. in Ed. 1903, Wilson Teachers College			



Limpia, Nick Paul	D.C.	Lizardo, Jose Desierto	P.I.
Lin, John	D.C.	A.B. 1938, San Francisco State College	
Linchuck, Stanley Martin	D.C.		
Lindahl, Charles Keith	Ill.	Llewellyn, John Manning W.	D.C.
Lindahl, Ivan LeRoy	Nebr.	Llewellyn, Phyllis Jane	D.C.
B.S. 1941, Nebraska Central College		Lloyd, Harold Lee	D.C.
Linda, Eva Belle	Ill.	Lloyd, Raymond James	D.C.
Linden, Sarah Esther	Md.	A.B. 1941, University of Virginia	
Linden, Fannie E.	Calif.	Loan, Roy W., Jr.	D.C.
Linder, Harris Willard, Jr.	Minn.	Loatman, Paul John	N.Y.
Linder, Louise Elizabeth	Ala.	B.S. 1942, Siena College	
Lindgren, Marjorie Atkins	Va.	Lobb, Allan Wilbur	Wash.
Lindner, Carl Witold	Md.	Lobo, Oswaldo Castro	D.C.
Lindner, Lydia Dorothea	N.Y.	Locke, Shirley Belle	N.H.
A.B. 1943, Brooklyn College		Lockhart, Elizabeth Berkeley	Va.
Lindsey, Irving	Va.	A.B. 1927, College of William and Mary	
A.B. 1923, The George Washington University		Lockman, James Marshall	D.C.
A.M. 1928, University of Maryland		Lockridge, Mary Howard	D.C.
Lindstrom, James Frederick	Wis.	Lockwood, Cherry Lane	D.C.
Linehan, Daniel William	Mass.	Lockwood, Harris Cade	Md.
Linehan, Margaret Elizabeth	S.D.	B.S. 1932, United States Naval Academy	
A.B. 1940, College of St. Teresa		Lockwood, Howard	D.C.
Lingo, Jane Tunstall	D.C.	Locraft, Vernetta Bogan	Md.
Linsinger, Virginia Gillham	D.C.	Loder, Byron Dundee	Va.
A.B. 1941, Denver University		Lodge, Thomas Ellis, Jr.	D.C.
Link, Dorothy Frances	D.C.	Lodwick, David	D.C.
Link, Gloria Louise	Va.	Loeb, Jack William	Ill.
Linsmayer, Helen Jane	Minn.	A.B. 1935, J.D. 1937, University of Chicago	
A.B. 1944, University of Minnesota		Loewy, Lucile H.	D.C.
Linton, I. Leonard	N.Y.	Loigren, Dennis Gustave	Nebr.
B.M.E. 1943, North Carolina State College		Loigren, Mae Jean	Md.
Linthicum, Seth H., Jr.	Md.	B.S. 1943, University of Pittsburgh	
A.B. 1940, Johns Hopkins University		Lofton, Juanita I.	D.C.
Linton, Howard Phillip	N.H.	Logan, Anna Christine	Tex.
A.B. 1934, Dartmouth College		A.B. 1948, College of the Ozarks	
Linton, Mildred Louise	D.C.	Logan, Emmett William	Fla.
B.S. 1945, Wilson Teachers College		Logan, Kirk Harold	D.C.
Lipman, Frederick Louis	Md.	Loggins, James Elwin, Jr.	D.C.
Lipidsky, Nathan Bernard	Conn.	A.B. 1943, The George Washington University	
Lipser, Sara R.	Pa.	Lognaz, Henry Wilmore	D.C.
B.S. 1942, Pennsylvania State College		Logsdon, Hugh David	D.C.
Lipic, Bernice Elinor	W.Va.	Lollob, Alvin Jacob	D.C.
Lipitz, Herbert	Mass.	Lombardi, Margaret C.	Mont.
LL.B. 1940, Boston University School of Law		Lomberger, Stanley Thomas	D.C.
Lishon, Dexter	Mass.	London, Harry Jack	Ohio
Liska, Ellen Lydia	D.C.	LL.B. 1934, Ohio State University	
Liska, John Walter	D.C.	Long, Charles Edgar, Jr.	Miss.
Lit, David Reed	D.C.	Long, Charles Hays, Jr.	Pa.
B.S. 1938, Harvard University		A.B. 1928, LL.B. 1931, University of Pittsburgh	
Littell, Arthur Simpson	Conn.	Long, Corson Wesley	D.C.
A.B. 1944, Harvard University		Long, Gerald Michael	N.C.
Littell, Helen Hughes	D.C.	Long, Iva Mae	Tenn.
Little, Mary Jane	D.C.	B.S. 1940, University of Tennessee	
Little, Mary Lou	Ill.	Long, Nancy Kay	D.C.
B.Mus. 1943, University of Illinois		Long, Paul Robert	Pa.
Little, Robert Paul	Mass.	Long, Phyllis Irene	D.C.
Little, Roy Locher	D.C.	Long, William F. Edward	D.C.
Little, Theresa Eleanor	Va.	Longley, Jay Rhodes	Wis.
Littlehales, Lisette Warren	D.C.	Longley, Mary Olga	Va.
Littleton, Clara Faye	Ky.	Longshore, Frederick Kime	Pa.
Litvynski, Emily A.	N.Y.	B.S. 1935, United States Naval Academy	
Livdahl, Thelma Naomi	N.Y.	Longstreth, Wallace Isaac	Mo.
Livengood, Ralph Leon	Mont.	Loomis, Gwendolyn Yvonne	D.C.
Liverman, Myrtle Louise	D.C.	Loomis, Helene Elizabeth	D.C.
Lively, Glen Charles	Va.	Loomis, Vader Madison	Va.
Livingston, Harold Charles	Ohio	Lopez, Francis Xavier	Ill.
Livingston, Samuel	N.Y.	Lopez, German Carlos, Jr.	D.C.
Livingstone, Earl Leslie	N.Y.		
Livonier, Carl Witold	D.C.		
	Md.		



MacGillivray, Marjorie Dorothy	D.C.	Mahoney, Richard Joseph	N.Y.
A.B. 1943, Syracuse University		Mahony, John Patrick	Va.
MacGregor, Sue Spearman	Miss.	Mahoney, Florence Hathaway	Ind.
Mach, Mildred Mary	Minn.	B.S. 1922, B.Ph. 1925, University of Wisconsin	
Machell, Arthur Raymond	N.H.	Maria, Francisco de Souza	D.C.
Machita, John	D.C.	Mayer, Mary Frances	Ind.
Macina, Louis de Raymond	D.C.	Maorana, Nathan Joseph	D.C.
Maciulla, Mary Rosina	D.C.	Moore, Cyril Emil	Md.
A.B. 1932, The George Washington University		Moyer, Lewis A.	Va.
Mack, John Raymond	D.C.	Muller, Fritz Josephine	Mich.
A.B. 1934, Iowa Teachers College		Mulet, Charlotte Doris	D.C.
Mack, Mabel Winifred	D.C.	Mullin, Jeanette	N.Y.
Mack, Norman E.	D.C.	Muller, William John	D.C.
Mack, S. LeRoy	D.C.	Mullins, Phyllis A.	Conn.
B.S. 1942, Wilson Teachers College		Mulroy, Robert Henry	Ky.
A.M. 1944, American University		Mullins, Nicholas Michael	D.C.
Mack, Winifred Kent	Pa.	Mullvey, E. Theodore	Pa.
A.B. 1942, Westminster College		B.S. in E.E. 1941, Drexel Institute of Technology	
Mackay, Clarence Wallace	Md.	J.D. 1945, The George Washington University	
E.E. 1926, Rose Polytechnic Institute		Malone, Bettie Marie	Md.
M.B.A. 1928, Harvard University		Malone, Philip Keller	Md.
Mackay, Dolbe	Wyo.	Mahoney, Ellen Elizabeth	Va.
Mackey, Angyle Robert	D.C.	A.B. 1929, University of Maine	
Mackey, James Eugene, Jr.	Tenn.	Mahoney, Rosemary Constance	D.C.
Mackey, Mary Ellen	D.C.	Mahoney, William Everett	D.C.
Mackerman, Darrell Enthia	D.C.	Malowski, Mary Marguerite	Minn.
A.B. 1934, University of Maine		Mahoy, Mary Claire	D.C.
MacLean, Julia Vinas	D.C.	Malsheski, Frances Ann	D.C.
MacLean, Marion Elizabeth	D.C.	B.S. 1944, Wilson Teachers College	
A.B. 1944, The George Washington University		Makaghat, Oreste Francis	D.C.
MacLeod, Gregory Alexander	Mass.	Maltby, Wilson Ray	D.C.
MacMaster, Andrew James	Tex.	A.B. 1940, A.M. 1933, University of Wisconsin	
B.B.A. 1943, Southern Methodist University		Maltman, William Leneave	Oreg.
MacMillan, John Howard	Md.	B.S. 1943, University of Oregon	
MacMillan, Margaret Jane	Pa.	Mamosh, L. J.	W. Va.
MacMorris, Kathryn Elizabeth	Md.	Managan, William Warren	La.
A.B. 1943, University of Maryland		A.B. 1941, Vanderbilt University	
MacMurray, John Clark	D.C.	Manaker, Marion	N.Y.
MacNab, John Erwin	D.C.	Manchester, Mary Frances	Idaho
MacPhee, Mary Isabell	Mass.	Manson, Jean Bruce	D.C.
A.B. 1935, Boston University		Mansel, Nathan	N.Y.
Madansky, Leon	Mich.	Mansel, Pearl	N.Y.
M.S. 1944, University of Michigan		Mandel, Sam	N.Y.
Madlox, Charles Hamilton, Jr.	D.C.	A.B. 1941, Brooklyn College	
Madlox, Patricia Louise	D.C.	Mandelowitz, Helen	N.Y.
B.S. 1940, Purdue University		Mansell, Leonard Jerome	N.Y.
Madrosky, Phillipa Edwina	Va.	LL.B. 1935, LL.M. 1937, B.S. 1938, St. John's University	
Madson, Shirley Ruth	D.C.	Mandris, Theodore Louis	D.C.
Mahee, Beryl Marie	Wis.	B.L.E. 1943, Catholic University of America	
Mahee, John Pressley	D.C.	Manens, Jean T.	Pa.
Mahee, Robert Henry	Va.	Mandred, Joseph, Jr.	D.C.
Magnetti, Charles Orison	Md.	Manger, William Franklin	D.C.
Magnuder, Donald Richard	Va.	Mankin, Haven Winslow	Md.
Magnuder, Father Hoamer	D.C.	A.B. 1943, Washington and Lee University	
Magnuder, Marion Virginia	Va.	Manley, Albert	Tenn.
A.B. 1921, Randolph-Macon Woman's College		Manley, Margaret	Minn.
A.M. 1935, The George Washington University		Mann, Betty Lou	D.C.
Maguire, Helen Ross	D.C.	Mann, Charles Kenneth	D.C.
A.B. 1934, The George Washington University		Mann, Glenn Miller	D.C.
Maguire, Russell Ambler	D.C.	Mann, James Packard	D.C.
Magurn, Joseph John	D.C.	Mann, Jean Carol	Md.
A.B. 1938, Harvard University		Mann, John Westwood, Jr.	Ark.
Mahaffy, Steve Renfrew	Calif.	A.B. 1938, Hendrix College	
Mahaney, Thomas Preston	Mich.	Mann, Richard Thomas	D.C.
Mahar, Daniel John	N.Y.	Mann, Robert Paul	D.C.
Mahler, Stanley	D.C.	Mann, Robert Urban	D.C.
Mahon, Franklin Albert	Ohio	Mann, Shirley Louise	Md.
Mahon, Leona	Pa.		



Manne, Jacqueline	N.J.	Marsden, Lawrence Albert	Minn.
Manne, Martin B.	N.Y.	B.S.L. 1941, University of Minnesota	D.C.
Manning, Harry LeKey	Pa.	Marsh, Dorothy Isabella	D.C.
Manolatos, Anne G.	D.C.	Marsh, Nancy Bernice	D.C.
Manolatos, Spiro George	D.C.	Marsh, William Johnson	Va.
Manos, Bessie	D.C.	Marshall, Agnes Isabella	Va.
Manos, Helen Dana	D.C.	Marshall, Carver Francis	Va.
Manos, Pauline G.	Pa.	Marshall, Claudia	Ill.
A.B. 1939, Thiel College		Marshall, Dorothy Marie	Va.
Mantelet, Denise Jacqueline	France	Marshall, Eleanor Marie	Va.
Mantell, Morton	Va.	Marshall, Harry Taylor, Jr.	
Manthey, Charles Edwin	Ohio	A.B. 1940, University of Virginia	D.C.
Mantle, Mary Swift	Va.	Marshall, Leonard	D.C.
A.B. 1935, Woman's College of the		Marshall, Myrna Bushmeyer	Md.
University of North Carolina		Marshman, Esther Weaver	
Mannica, Herbert Louis	Va.	A.B. 1939, The George Washington	
Manville, Alvin LeRoy	Va.	University	Md.
Manville, Robert Wellensick	D.C.	Marston, Rebecca Galloway	Tenn.
Manwiler, Leon Harding	Pa.	Marston, William James	
Mapes, Mildred Beatrice	Mo.	A.B. 1933, Maryville College	D.C.
Maples, Houston	Va.	Martens, John Henry	D.C.
Mapou, Albert	N.Y.	Martin, Barbara Jeanne	N.Y.
B.S. 1941, College of the City of		Martin, Catherine Ann	Md.
New York		Martin, Fay Emmett	Md.
Marano, Matthew J.	N.J.	Martin, F. Mervin	D.C.
Maraspin, Davis Goodwin	Mass.	Martin, Franklin	
B.S. 1921, Lehigh University		A.B. 1942, The Citadel	D.C.
Marbley, William Elliott	D.C.	Martin, Grace Anna	D.C.
Marcosano, Muriel A.	N.Y.	Martin, Gwen Gertrude	N.Y.
Marcum, Leocade Leighton	Mass.	Martin, Homer Roy	D.C.
A.B. 1930, Tufts College		Martin, James Canine	Utah
A.M. 1943, The George Washington		Martin, James H.	Va.
University		Martin, Janice Catherine	Md.
Marden, Ethel Cox	Va.	Martin, Jean Halley	Iowa
Marelius, Edward August	Colo.	Martin, Jerome Daniel	D.C.
A.B. 1940, University of Utah		Martin, John Gaillard	N.Y.
Marfield, Jeannie Stone	Md.	Martin, Julian	D.C.
A.B. 1945, Goucher College		Martin, Keith A.	Va.
Margolin, Joseph Bernard	N.Y.	Martin, Marshall Alden, Jr.	D.C.
A.B. 1942, Brooklyn College		Martin, Mary Carolyn	Pa.
Margolius, Jerome Francis	D.C.	Martin, Paul Calvin	Pa.
Margraf, Harold Francis	D.C.	Martin, Robert Edward	Ala.
B.S. 1941, New York University		Martin, Robert Laverne	D.C.
M.S. 1946, College of the City of		Martin, Rosa Irene	Pa.
New York		Martin, Ruth W.	D.C.
Margulies, Oscar	N.Y.	Martin, William Henry II	
Marichak, Barbara	Pa.	A.B. 1943, Bowdoin College	D.C.
Marichak, Mary	Pa.	Martino, Roger	Bras.
Marino, Frank Thomas	D.C.	Martins, Elson Solano	D.C.
A.B. 1937, American University		Martyn, Raymond DeWint	Va.
Marinoff, Marilyn Rosslyn	D.C.	Martz, Kathryn Elynor	D.C.
Marion, Sarah Crockett	Miss.	Marvnov, Joursy Vladimirovich	D.C.
Mark, Helen	Kans.	Marx, David Lester	Md.
A.B. 1927, University of Kansas		Masling, Frank	Md.
Mark, William John	D.C.	Mason, Clarence Walton	
Marker, George Joseph	N.Y.	A.M. 1940, Duke University	Va.
Markie, Virginia Lee	Pa.	Mason, Ida Clarissa	
B.S. 1942, College of William and		A.B. 1926, A.M. 1927, Indiana	
Mary		University	D.C.
Markoff, Moses	N.Y.	Mason, Shirley June	D.C.
Markova, Emma Audrey	D.C.	Massev, John Alexander	Va.
Markowitz, Irving	N.J.	Masse, Elizabeth Faulkner	Va.
Marks, Edith S.	D.C.	Masoletti, Lillie	
Marks, Freda Jeanne	D.C.	A.B. 1936, The George Washington	N.Y.
Marks, Lester	D.C.	University	Ark.
Marks, Sallie B.	N.C.	Massonneau, Suzanne	Md.
A.M. 1924, Columbia University		Masters, Marcelle C.	Tex.
Marlier, Joan Marie	Pa.	Masters, Nancy Wirgman	Ky.
Marmelstein, Ann C.	D.C.	Masterson, Ione Louise	
Marmion, Bethel Clattercock	D.C.	Masterson, James Aaron	
Marr, Jeanette	Md.	B.S. 1938, United States Naval	
A.B. 1944, The George Washington		Academy	D.C.
University		Mastromichalis, Hippocrates	

Matelan, Raymond Frank	Pa.	McArt, Sonia M.	Va.
Matera, Ralph Joseph	D.C.	McAvey, William Bernard	Maine
Mather, Charles E. II	Pa.	A.B. 1944, The George Washington	
Mathews, John Bradburn	D.C.	University	
Mathewson, Gordon Wright	Pa.	McBath, Mary Lena	D.C.
A.B. 1942, Syracuse University		McBride, Daniel Arthur	D.C.
Mathiasen, Martha	N.J.	McBride, George Austin	Ohio
Mathieu, Maria Teresa	D.C.	McBride, George Warfield	Md.
A.B. 1938, Mercyhurst College		McBride, Robert James, Jr.	D.C.
Mathys, Georgina	D.C.	McCallery, Cherna Catherine	Ohio
Matlow, Norman	D.C.	McCallery, Elva	D.C.
Mattson, Richard Lee	Va.	McCarthy, Alice L.	Mo.
Matsuda, Tony	D.C.	McCall, Thomas Day	Va.
Mattus, Helen Catherine	Ind.	B.S. 1939, College of William and	
Mathies, Chester Anthony	Mass.	Mary	
Mathews, Denhigh Schuyler	Va.	McCaig, Nevila Elizabeth	S.D.
B.S. 1943, The George Washington		McCall, Chester Hayden, Jr.	D.C.
University		McCauley, John W.	Calif.
Mathews, Harris Stone, Jr.	Md.	McCallum, Lois E.	D.C.
Mathews, John Carum	D.C.	McCandless, Dorothy Clara	Md.
Mathews, Joseph Brown, Jr.	N.J.	McCandless, Perry G.	Mo.
Mathews, Mary Elizabeth	Va.	B.S. 1941, Central Missouri State	
Mathews, Walter Richardson	S.C.	Teachers College	
Mattimore, Walter Bernard	N.Y.	McCann, Dorothy Patricia	D.C.
Mattingly, Robert Andrew, Jr.	D.C.	McCann, Evelyn Agnes	N.D.
A.B. 1944, The George Washington		McCarley, Orin	D.C.
University		McCarthy, Franklyn Joseph	D.C.
Mattson, Arthur Richard	D.C.	McCarthy, Genevieve Elizabeth	Mass.
Mattson, Marjorie Lue	Minn.	McCarthy, Mary Agnes	D.C.
Matus, Gloria Mignauette	D.C.	McCarthy, Matthew Edward	N.Y.
Matvey, John Thomason	D.C.	A.B. 1943, Fordham University	
B.S. in Eng. 1934, Duquesne Uni-		L.L.B. 1947, St. Johns University	
versity		McCarthy, Pauline Marie	Mass.
Matzkin, Muriel, R. J.	N.Y.	McCarthy, Robert Joseph	N.J.
A.B. 1941, Brooklyn College		A.B. 1943, The George Washington	
Mauer, Sidney Ira	D.C.	University	
Maul, David Theodore	Mo.	McCarthy, Sheila Marie	D.C.
B.S. 1944, Washington University		McCarthy, Thomas Vincent	Md.
Maupin, Dorothy Ray	D.C.	McCartney, Theodore Robinson	Ill.
Maupin, Mary Elizabeth	W.Va.	McCarty, James Peter	D.C.
Maurer, George Joseph	Pa.	McCarty, Thelma Price	D.C.
Maurer, Herbert Maurice	N.Y.	McCarry, Harry William	Va.
Maurer, Pauline	Nebr.	A.B. 1938, Bridgewater College	
A.B. 1941, University of Omaha		McCauley, Joseph Dean	Va.
Mautner, Olga Gene	Wis.	McCavitt, Mary Clare	W.Va.
Mautner, Robert William	D.C.	McCaw, Lorena May	D.C.
Maximo, Alice	N.J.	McCewey, Norman Francis	D.C.
Maxon, Robert Phillips	D.C.	McClain, Edward F.	Mo.
Maxwell, Dorem Stanley	D.C.	McClellan, Howard Frank	Iowa
Maxwell, Miriam Jean	Md.	McClellan, Jason Eugene	Va.
May, Irving	D.C.	McClellan, LaVonne Hedeon	Iowa
B.S. 1938, College of the City of		McClellan, William Parke	D.C.
New York		McClenahan, Donald Johnston	Idaho
May, Marilyn Virginia	Tenn.	A.B. 1948, College of Idaho	
Maya, Silvia Merrell	D.C.	McClenon, Paul Robert	D.C.
Mayer, Fred Louis	D.C.	McClesky, Curtis Victor, Jr.	Va.
Mayer, Herbert Carleton, Jr.	Iowa	McClintock, Elena Barri	D.C.
B.S. 1943, Parsons College		McCloskey, Sylvester John	D.C.
Mayer, Janice Kathryn	D.C.	McClure, John Pendleton	D.C.
A.B. 1941, University of California		McClure, John Reeder	Md.
Mayer, Shirley Arden	Mo.	McCole, Catherine Gloria	Pa.
B.S. in Ed. 1942, Central Missouri		McConahy, Paul Lossee, Jr.	D.C.
State Teachers College		McConnell, Harden Marsden	D.C.
Mayes, Vallery Van	Va.	McConnell, Mary Helen	D.C.
Mayfield, Betty Ann	Tenn.	McConnell, Myra Clara	D.C.
Mayfield, Harry Leon	D.C.	McConnell, Richard D.	Va.
Mayhew, Joseph Francis Xavier	Md.	McConnell, Sarah Loomis	Va.
Maymi, Protasio	D.C.	McCorkle, Mary Ellen	Va.
Mayo, Reid Dennis	D.C.	McCormick, Francis Leonard	Nebr.
Maytubby, Melvin Edward	D.C.	McCormick, Homer Lee	Va.
Mazzuca, Maria Elvira	Okla.	McCormick, Richard Joseph, Jr.	Mass.
McAdams, John P.	N.Y.	McCoskey, Robert Edgar	D.C.
McAneer, Frank Ed	Md.	McCoy, Horace Lyman	Md.
A.B. 1945, The George Washington	Ark.	B.S. 1943, The George Washington	
University		University	

McCrahan, Betty Mae	D.C.	McIntyre, Robert Varnon	D.C.
McCue, Harriett Elaine	Minn.	A.B. 1915, The George Washington	
McCullough, Jane E.	Pa.	University	
A.B. 1941, The George Washington		McIntyre, William G.	Mont.
University		McKay, Doris Mabel	N.D.
McCullough, Ruth Preble	Md.	McKay, Emerald Raleigh	Mo.
McCur, John Pendleton	D.C.	B.S. 1942, Northwest Missouri	
McCusker, Robert Karlend	Va.	State Teachers College	D.C.
McCusker, Sara Kennedy	S.C.	McKay, Martha	D.C.
McDaniel, Eleanor Jean	Ky.	McKeehan, Joan Badger	N.C.
McDaniel, Frances McQuire	Va.	McKeel, Charles Baynor	Mass.
McDonald, Evelyn Josephine	Iowa	McKenna, Anna Winifred	Ohio
McDonald, Evelyn Marie	Md.	McKenzie, Gene Rosalie	Mo.
McDonald, Gorman A.	Va.	McKerlie, Marilla Louise	D.C.
McDonald, Jean	D.C.	McKey, Richard Kendall	W.Va.
McDonald, June M.	N.D.	McKinney, Margaret Millicent	Okl.
McDonald, Leona Eileen	Iowa	McKinney, Worthy William	Va.
McDonald, Myrtle Elsie	D.C.	McKinnon, Maurine Marjorie	Va.
McDonough, Charles Francis	Iowa	McKinnon, William Thomas	
B.S. 1942, University of Detroit		A.B. 1925, A.M. 1926, University	
McDuffie, Sarah Ford	Md.	of South Carolina	Tenn.
B.S. 1941, University of Minnesota		McKinstry, James Joseph	
McFiee, Frank Wilson	Ark.	B.S. 1927, United States Naval	
McFurt, Fannie Josephine	Idaho	Academy	
McEver, Charles Roland	Ga.	McKune, Muriel Lois	Ill.
McEwan, James Gray	N.Y.	McLaurin, Bertrand Elton	Va.
McEwan, John James, Jr.	D.C.	McLoughlin, Hugh Sinclair, Jr.	Miss.
A.B. 1941, Columbia University		McLoughlin, Leta Avis	Pa.
McEwan, Mary Adelaide	Va.	McLoughlin, Lela Lyle	D.C.
McFadden, Jean M.	D.C.	McLoughlin, Margaret F.	Neb.
McFall, Cread Flannery	D.C.	McLoughlin, Mary Macmillan	N.C.
McFarland, Alice Blackwell	Va.	McLean, Charles Graham	Va.
McFarland, Andrew Jackson	Va.	McLean, Mary Sheldon	D.C.
McFarland, Betty Mae	Fla.	McLean, Regina Hayes	Mass.
McFarland, Clyde Arnold	D.C.	McLendon, Frank Wilson	Md.
McFarland, Thomas James, Jr.	Va.	McLendon, William Porter	
McFarlane, Mary Ellen	Tex.	A.B. 1929, Birmingham-Southern	
A.B. 1944, Texas State College for		College	
Women		A.M., 1930, University of Virginia	D.C.
McFeaters, Marvin Clyde	Okla.	McLeod, Edith Lott	N.C.
A.B. 1944, The George Washington		McLeod, Mary Lois	D.C.
University		McLeroy, Rueben Joshua	Va.
McGinn, Marjorie Louise	D.C.	McLohan, Doris Mae	Md.
McGarry, Edward Clifford	D.C.	McLoughlin, Donald Keith	Wis.
A.B. 1945, The George Washington		McMahon, Eugene Francis	
University		A.B. 1945, Pennsylvania State	
McGee, Robert Charles	D.C.	College	Conn.
McGehee, Zelda Patricia	D.C.	McMahon, John James	D.C.
McGhee, Cecilia DeGolyer	D.C.	McMahon, Sara Ryan	N.J.
McGill, George	D.C.	McMahon, William Francis	D.C.
A.B. 1945, Furman University		McMakin, William Howard	Wyo.
McGirk, Donald Millard	Pa.	McManus, Jean	Utah
McGrain, Catherine Elinore	D.C.	McMillan, George M.	D.C.
McGrath, Sally Louise	Md.	McMillan, Lums Carroll	D.C.
McGrath, Stanley Mae	Mass.	McMullen, Donald Frederick	D.C.
McGraw, Cora Marion Belt, Jr.	Va.	McMullen, Marjorie Ann	D.C.
McGraw, Susan Ellen	D.C.	McMullen, Thomas Richard	D.C.
McGraw, Jean	D.C.	McMurray, Hazel Albertine	Pa.
A.B. 1941, Ed. 1942, The George		McMurray, Stuart Emmert	
Washington University		B.S. 1935, University of Pennsylvania	D.C.
McGue, John T.	Ariz.	McNabb, Gertrude Ellen	Va.
McGuire, Frances James	D.C.	McNally, Amelia Ruthylin	Ala.
McGuire, John Gracem	D.C.	McNally, Jean Wilson	
McGuire, Ralph Luck	Mont.	McNay, Aileen Vark	
McGarrin, James Joseph, Jr.	D.C.	A.B. 1937, University of Alabama	D.C.
McHale, Edward Joseph	Va.	McNeal, Barbara Ellen	N.J.
McHugh, Jean Suzanne	Calif.	McNeil, Ann Rosalie	
McIner, Isanna Reed	Iowa	A.B. 1944, The George Washington	N.Y.
McInteer, Sarah M.	D.C.	University	
McIntosh, Albert LeRoy	D.C.	McNeil, George Joseph	Mass.
McIntosh, James Florio	N.C.	B.S. 1942, Columbia University	Me.
McIntyre, Carl Franklin	N.C.	McNeil, Marjorie Mae	
McIntyre, Fred Louis	Nev.	McNeil, Neil Venable	



McNeill, Kathryn L.	D.C.	Melber, William Edward	N.J.
McNelly, Betty L. E.	D.C.	B.S. 1944, Newark College of En-	
McNicholas, Patricia Ann	N.Y.	gineering	
McNatt, Anna Mary	D.C.	Melby, Gloria Millicent	N.D.
McPhail, Angus	D.C.	Melendez, Maria Teresa	D.C.
A.M. 1936, University of Iowa		Melewick, Frank Vincent	N.Y.
McQueen, Robert Charles	Va.	A.B. 1940, Union College	
A.B. 1943, Dartmouth College		Melius, Howard Frederick	Wis.
McQuiston, Fay	D.C.	Melland, Marcella Lydia	D.C.
A.B. 1939, Wellesley College		Melloy, Richard Arthur	Md.
McRae, Luther Cecil	Va.	Mellum, Charlotte Arline	Ill.
A.B. 1927, Ed.M. 1928, Duke		Melman, Betty	D.C.
University		Melnick, Helen	Pa.
McRae, Robert Bruce	Md.	Melnicove, Barbara Saubu	D.C.
A.B. 1939, American University		Melohon, Doris Mae	Va.
McReynolds, James Shad	Ill.	Meltzer, Allen E.	Va.
A.B. 1944, The George Washington		Meltzer, Beatrice Anne	N.Y.
University		Melvin, Betty Anne	D.C.
McShane, Rudolph Matas	N.J.	Melvin, Mary Louise	N.C.
B.S. 1928, Tulane University		Memler, Willard Robert	Va.
McShane, William Robert	Pa.	A.B. 1941, The George Washington	
B.S. 1944, Haverford College		University	
McSherry, Elizabeth James	D.C.	Mendel, Howard	D.C.
McTernan, Charles Edward	N.Y.	Mendelson, Morris	D.C.
B.S. 1941, University of Alabama		Mendelson, Jerome William	Ohio
A.B. 1939, Hamilton College	D.C.	Mendelson, Jean Sylvie	D.C.
A.M. 1939, New York University		Menges, Paul F.	D.C.
M'Vay, Carlos Berler IV	D.C.	Menke, Bernard William	Nebr.
M'Vay, Frank Richard	D.C.	A.B. 1943, University of Nebraska	
M'Vay, Fred Louise	Md.	Menzel, Gloria Charles	D.C.
McV. 800, Harley Keith	Ill.	Menzel, Margaret Dorothy Jane	Ind.
M'Walt, Mary Carol	D.C.	Menzel, Halle Noel	Tex.
A.B. 1944, The George Washington		B.S. 1942, East Texas State Teachers	
University		College	
McWaters, Grace Ann	Ohio	Mercer, William E. genia	Tex.
Mead, Charles Alexander, Jr.	D.C.	B.S. 1932, Southwest Texas State	
A.B. 1941, The George Washington		Teachers College	
University		Mercer, Rose Patricia	D.C.
Mead, Charlotte Grace	D.C.	Mercer, Edward Wiley	Ill.
Mead, Robert Osborn	D.C.	Mercer, Lee L. M.	Ia.
Mead, Arthur Edward	Va.	Merritt, Theodore Joseph	D.C.
Mead, Irene Josephine	D.C.	Merritt, John Yates	Va.
Meadows, Mary Euse	Va.	A.B. 1942, Buchanan Young Uni-	
Mears, Dixie Louise	Pa.	versity	
Mearns, Eugene Kennedy	D.C.	Merrill, Virginia	N.Y.
B.S. 1938, United States Military		Merrill, Hanson S.	D.C.
Academy		B.C.S. 1942, University of Georgia	
Mears, Ann Elizabeth	Va.	Merritt, Eline Wickes	Mass.
Mears, Thomas Wakefield	Ala.	Merritt, Margaret R.	D.C.
B.S. 1943, University of Alabama		A.B. and B. Dip. in Ed. 1920, A.M.	
Mease, Josephine Ida	D.C.	1926, The George Washington	
Mead, Margaret Amelie	D.C.	University	
Mender, Marjory Elizabeth	Calif.	Merritt, Bonnie	Okla.
Meehan, Katherine Louise	D.C.	A.B. 1935, Oklahoma University	
Meehan, Florence Lillian	Tex.	Mertz, Betty Anne	D.C.
A.B. 1940, Texas Technological College		Mesher, Samuel	N.Y.
Meeks, William Hamilton	D.C.	Messel, Melvin Lewis	D.C.
Meers, Josephine Marie	Ind.	Messing, Margaret Roshing	D.C.
Meece, Norman Sayford	Md.	Messing, Anna Eda	D.C.
Meece, Daniel	D.C.	Messick, Florence Amelia	Md.
Mebaffey, William Truby	D.C.	A.B. 1926, Western Maryland College	
Mehbod, Ahmed	D.C.	Messick, Jean Wadsworth	D.C.
Mehler, Richard Arnd	Pa.	Messel, Linda	D.C.
A.B. 1941, Washington and Lee		Metz, Catherine E.	D.C.
University		Metz, Norman George	D.C.
Meier, Harry Nichols	D.C.	Metzger, Paul N.	D.C.
Meier, Robert Willy	Md.	M.S. 1941, University of Michigan	
Mellier, Fred H.	Va.	Metzger, Joseph Felix	D.C.
Meininger, Bertha A.	Wis.	Mowbray, Dale Ray	Okla.
Meitzler, Irene Bernadette	D.C.	Meyer, Louella W.	Tex.
Melavie, Patricia Isabell	Va.	Meyer, Gratian Jerome	D.C.

Meyer, Leontone Anne Mary A.B. 1935, St. Louis University M.S. 1942, University of Southern California	Mo.	Miller, Cornelia Gillespie Miller, David William Miller, Doris A. Miller, Earl Clayton Miller, Edith Ilomay B.S. 1935, University of Idaho	D.C. D.C. Va. Va. Idaho
Meyering, Catherine Cecelia A.B. 1930, Seton Hill College	D.C.	Miller, Edna Virdena Miller, Elaine Shirley Miller, Elizabeth Jane A.B. 1943, New Jersey College for Women	Kant. Va. N.Y.
Meyers, Lois Ruth	D.C.	Miller, Evelyn Wells Miller, Felicia Mary Miller, Fern Gladys Miller, Florence Shirley B.S. 1942, Pennsylvania State College	D.C. D.C. Pa.
Meyers, Sally	Mo.	Miller, Florian George B.S. in M.E. 1929, University of Michigan L.L.B. 1932, The George Washington University	D.C. D.C. Pa.
Meyers, Theresa Helen	D.C.	Miller, Francis Eugene Miller, Frank Lewis Miller, Frank Nelson, Jr. B.S. 1943, The George Washington University	D.C. D.C. D.C.
Meyerson, Winifred Aileen	Md.	Miller, Henry A. A.B. 1937, B.S. 1944, Washington University	Md.
Meyn, Ruth Alta	Kans.	Miller, Herbert Andrew Miller, Homer Ralph Miller, Howard Russell Miller, James Robert Miller, Joseph Edward Miller, Joseph Sheldon Miller, Joshua Albert B.S. 1942, University of Maryland A.M. 1948, The George Washington University	N.D. Md. Md. Md. Md. D.C. Md.
Mezey, Phyllis Mae	N.Y.	Miller, Laird O'Neil A.B. 1937, Washington and Jefferson College	D.C.
Mezina, Basil J.	N.J.	Miller, Lelia Jane Miller, Leonard C. Ph.D. 1940, University of Chicago	D.C. D.C. D.C.
Mibuck, Ann Louise	Ohio	Miller, Louis Ashur Miller, Lucille McBride Miller, Lynn Harry Miller, Marie Frances B.S. 1940, University of Alabama	D.C. D.C. Ill. D.C.
Michael, Arnold Hugh	D.C.	Miller, Martin Leroy B.S. 1942, Lebanon Valley College	Pa.
Michael, Bernard	D.C.	Miller, Mary Margaret A.B. 1944, Dickinson College	Md.
Michael, Irving	D.C.	Miller, Maxwell Alvord A.B. 1923, Lombard College	Pa.
Michael, Otho Ernest	Va.	Miller, Melvin Eugene Miller, Norman Richard Miller, Patricia Adele Miller, Pattie Violet Miller, Paul Meibert A.B. 1938, Washington and Lee University	D.C. D.C. Mass. S.D. Md.
Michaels, Andrice Fleming	D.C.	Miller, Phyllis Miller, Ray Lambert B.S. 1936, Northwest Missouri State Teachers College	D.C. D.C.
Michelson, Irving B.S. 1943, Georgia Institute of Technology	D.C.	Miller, Robert Earl Miller, Robert Edward Miller, Robert Lawrence B.S. 1943, Rutgers University	D.C. D.C. N.H.
Michelson, Samuel	N.Y.	Miller, Robert Stanley Miller, Roger W. Miller, Roy Hamilton	D.C. Ind. D.C.
Michener, Martha Mumper	Pa.		
Michols, Raymond Martin	Wis.		
Mick, Mary Azalen	W.Va.		
Mickelsen, Pauline E.	Wash.		
Mickelson, Walter B.B.A. 1938, University of Washington	Wash.		
A.M. 1942, The George Washington University			
Mickey, Joyce Helen	D.C.		
Middleman, Miriam	N.Y.		
Middleton, Anne Winifred	D.C.		
Middleton, Audrey Louise	Md.		
Middleton, Mary Nell	Va.		
Midkoff, Harold Mercer A.B. 1938, Wooster College	Ohio		
Miffin, Drucilla Ann	Mo.		
Migdal, Evelyn	D.C.		
Mihalsick, Anna Bella	Pa.		
Mikesell, Alfred Housham A.B. 1935, University of California	D.C.		
Mikeshock, Edward John	D.C.		
Mikolajczyk, Haaren Albert	N.Y.		
Mikolajczyk, Sylvia Mary	Pa.		
Mikolitsky, Bernard	N.Y.		
Milan, Ramon Arturo	P.R.		
Milans, Henry George, Jr.	Md.		
Miletich, Marie Victoria	D.C.		
Milne, Teresa Elizabeth	D.C.		
Miltzer, Gustave David	Md.		
Milkman, Louis A.B. 1934, Brooklyn College	D.C.		
Millar, Jack William A.B. 1945, Stanford University	Calif.		
Millar, Ronald Kenneth A.B. 1941, San Diego State College	Calif.		
Millard, Francis Rhodes A.B. 1928, Pacific Union College	Va.		
Millard, Zelah Elizabeth	D.C.		
Miller, Allen John	Md.		
Miller, Aloysius Ignatius	Pa.		
Miller, Alta Mae	D.C.		
Miller, Antonine Geoffrion	Va.		
Miller, Betty Jane McKinney	D.C.		
Miller, Betty Marie	Pa.		
Miller, Charles Harrison	Pa.		
Miller, Charles Henry	Wis.		
Miller, Charlotte Nevins	Pa.		
Miller, Christopher Poppenhein B.S. 1933, University of Richmond	Va.		

Miller, Ruth Lynn	D.C.	Mitchell, Marguerite Amy	Maine
Miller, Sally Isabelle	D.C.	Mitchell, Patricia Ford	Ala.
Miller, Samuel Peter	Va.	Mitchell, Shirley Adele	Md.
Miller, Shirley Louise	D.C.	Mittleman, Dorothy Ann	D.C.
Miller, Victor Leroy	D.C.	Mittleman, Lucille	D.C.
Miller, Viola L. Carman	D.C.	Mitzner, Ernest Samuel	N.Y.
Miller, Woodrow Wilson	D.C.	Mizell, Byron Butler	Fla.
Millman, Archer Smithson	D.C.	Mnogolet, Nadezhda	D.C.
A.B. 1914, Randolph-Macon College		Mobberlay, Helen Jeanne	Va.
Milligan, Norma Louise	Okla.	Modlin, Albert Jay	D.C.
Milliken, Carl E., Jr.	Calif.	Modlin, Betty Lou	Ind.
A.B. 1935, Bates College		Moce, Alfred Brock	Va.
Milliken, Elizabeth Crawford	D.C.	Moerschler, Marion Louise	N.Y.
Milliken, Lewis Thurston	N.H.	Moffatt, Jean Hemphill	D.C.
A.B. 1944, Bowdoin College		A.B. 1922, Erskine College	
Milliken, Miriam Lucille	Pa.	A.M. 1931, Columbia University	
Millman, Max R.	N.Y.	Moffatt, Samuel John	D.C.
B.S. 1937, College of the City of New York		Moffett, Mary Ann	Md.
Miller, Dorothy Marjorie	Nebr.	A.B. 1945, Butler University	D.C.
Mills, Abeline Louise	Ark.	Mogin, Bert	
Mills, Daniel Elaine	D.C.	B.S. 1939, College of the City of New York	
Mills, Esther Brownell	Va.	Moulen, Muriel Sussman	D.C.
B.S. in Ed. 1937, Wayne University		A.B. 1945, The George Washington University	
Mills, James Stagle	D.C.	Mohagen, Edna Alice	D.C.
Mills, John Aloysius	D.C.	B.S. 1937, The George Washington University	
B.S. 1940, Wilson Teachers College		Mohar, Mary Kathleen	Ill.
Mills, Katharine Jayne	D.C.	Mohlen, Sylvia Iove	Va.
Mills, Marie Ursula	Md.	Mottler, Marvin Francis	Va.
Mills, Mary Louise	N.Y.	Mojella, Domenico Joseph	N.Y.
A.B. 1945, Bryn Mawr College		B.S. 1942, University of Alabama	
Mills, Shirley Barks	Va.	Moley, Raymond N.	D.C.
Mills, Stephen Roy, Jr.	R.I.	Moll, Aris	D.C.
Mills, Virginia Faye	Va.	Moll, Arval Sigrid	Md.
Mills, Virginia Wall	D.C.	B.S. 1945, University of Maryland	
Mitcham, Mabel Mary	D.C.	Mollari, Nina Bruna	D.C.
B.S. 1935, Northeast Missouri State Teachers College		Molnar, Ernest	Pa.
Minnick, Helen	Pa.	Moloney, Elaine Joan	Mass.
Minnick, Mildred Leona	D.C.	A.B. 1942, Trinity College	
Minnick, Frederick	Brazil	Molvencour, Mary Jean	N.J.
Minnick, Mary Susan	D.C.	A.B. 1944, College of St. Elizabeth	
Minnick, Vera Howard	D.C.	Mun, Ota May	D.C.
A.B. 1937, University of Denver		Mondelovich, Mike	D.C.
Minter, Sherman Leman	Va.	Monette, Thomas St. Lager	D.C.
B.S. 1941, Kent State University		Mondas, Mary Lee	Md.
Minnich, Ruth Catherine	Ohio	Mones, Gerda Sophia	Minn.
Muno, John	Va.	Monreal, Ruth Helen	Fla.
A.B. 1918, University of Pittsburgh		Monroe, Beverly Anne	D.C.
Mims, Gladine Dodd	W Va.	Monroe, Josephine Beck	D.C.
Misner, Albert Burton	Md.	Monson, Albert Randall	Va.
Misner, Charles Edward	Md.	B.S. 1940, Brigham Young University	
Misner, Florence Elizabeth	Tenn.	Montee, Hobart Mansfield	D.C.
Misner, Sophia Crouch	Va.	Montel, Patricia	N.Y.
Mintz, Samuel Peter	Oreg.	Montford, Florence Bolduc	D.C.
Mintz, Fred	Md.	Montgomery, Donald O'Dean	D.C.
B.S. in E. 1940, The George Washington University		Montgomery, Dorothy Mae	D.C.
Miranda, Felix Anthony	R.I.	Montgomery, George Thomas, Jr.	D.C.
Mirkes, Karl Richard	Wis.	Montgomery, June Overton	D.C.
Misner, Robert David	D.C.	Montgomery, Leonard Ryan	Tex.
Misson, Nancy Louise	D.C.	A.B. 1944, Wellesley College	
Mitchell, Anne Hubbard	Va.	Montgomery, Margaret Rosson	Va.
Mitchell, Charles G.	D.C.	Montgomery, Martha Ann	Va.
Mitchell, Eileen Davies	D.C.	Montgomery, Robert Henry	D.C.
Mitchell, Hannah Jane	Va.	B.S. 1942, University of Dubuque	
Mitchell, Janet MacDonald	Va.	Montgomery, William Jefferson	Tex.
Mitchell, John	N.Y.	B.S. 1941, Texas Agricultural and Mechanical College	
A.B. 1939, Union College		Moody, Elizabeth Carol	Va.
Mitchell, Kyle Ben, Jr.	Ala.	Moody, William Augustus	D.C.
Mitchell, Lawrence E.	Nebr.	Moors, John Eden	Va.
A.B. in Ed. 1938, Nebraska State Teachers College			



Moon, Esther Theodosia	D.C.	Morin, Louise Ethel	N.J.
A.B. 1941, Duke University		A.B. in Ed. 1935, Plymouth Teachers College	
Moon, Joan Marie	Md.	Morin, Patrick Charles	D.C.
A.B. 1942, University of Maryland		Morland, James Charles	D.C.
Mooney, Frances Privott	D.C.	Morley, William MacNeil	D.C.
Mooney, Mark Wendel	Md.	Mormone, Augustus James	Pa.
Mooney, Nancy Ann	D.C.	Moroz, Walter Stanley	Calif.
Moor, Richard Valentine	England	Morris, Elizabeth Appleby	D.C.
B.S. 1937, University of London		Morris, Frances Rita	D.C.
Moore, Blanche May	D.C.	Morris, James Craig	Ky.
Moore, Charles Lansdale	D.C.	Morris, John Graves	N.Y.
Moore, Conal N.	Iowa	Morris, Mary Elizabeth	D.C.
Moore, Eugene Minton	Ala.	Morris, Mildred Rutherford	
Moore, Frances Helen	Ga.	A.B. 1925, University of Kentucky	Va.
Moore, Katherine Ann	Ark.	Morris, Norma Gaye	D.C.
Moore, Louis N.	Md.	Morris, Paralee Wockwitz	Ill.
Moore, Malcolm Richardson	D.C.	Morris, Shirley Francis	D.C.
Moore, Marian Jane	D.C.	Morris, William Elwood	Ky.
Moore, Mildred Virginia	N.C.	Morrisette, Helen David	Md.
Moore, Robert Benjamin	Va.	Morrison, Carson Carmon	
Moore, Springs Reid, Jr.	Md.	M.S. 1932, University of Southern California	Va.
Moore, Waldo Hawthorne	La.	Morrison, Hester Welsh	Wash.
Moore, Ward John	D.C.	Morrison, LeRoy Fred	D.C.
Moore, Warren Horace	D.C.	Morrison, Linda Holt	Va.
Moore, William F.	D.C.	Morrison, Marian	Va.
Moore, William Frost	Md.	Morrison, Martha Ann	Va.
B.S. 1943, Johns Hopkins University		Morrison, Mattie Olivia	D.C.
Moorman, Catherine C.	D.C.	Morrison, Neha K.	
Mota, Elena	D.C.	B.S. 1940, A.M. 1941, Alabama Polytechnic Institute	D.C.
A.B. 1939, University of Chile		Morrison, Ralph Robert	D.C.
Mora, Gabriela	Va.	Morrison, Thomas Griffith	Mass.
Moran, Alvin Conrad	Pa.	Morrison, Vinal Addison	D.C.
Moran, Andrew John	Va.	Morrow, Bess Louise	Mich.
Moran, Jane Owen	Mass.	Morrow, Charles Walker, Jr.	Md.
Moran, Mary Louise		Morrow, Christopher Mollen	D.C.
B.S. in Ed. 1928, State Teachers College, Salem, Mass.		Morrow, Gay	
Morar, Mary	Ohio	A.B. 1943, Lynchburg College	Ala.
Murehead, Russell Dale	Ind.	Morrow, Janet Irene	Va.
Moreland, Caroline	Ala.	Morse, Howard Albert, Jr.	
Moreland, Helen Lucille	Iowa	A.B. 1940, LL.B. 1942, University of Wisconsin	Vt.
B.S. 1940, Iowa State College		Mortimer, Marion Georgia	D.C.
Moreland, Raymond Eugene	D.C.	Morton, Conrad Vernon	Pa.
Morey, Robert Havens	N.Y.	A.B. 1928, University of California	D.C.
Ph.B. 1931, Brown University		Moscatoello, Anthony Carmen	D.C.
Ph.D. 1934, Princeton University		Moseley, James Cleburne, Jr.	D.C.
Morgan, Alice Susan	D.C.	Moseley, Martin Winn	
B.S. 1918, University of Maryland		A.M. 1930, University of Kentucky	D.C.
Morgan, Alfred Davidson	Ga.	Mosier, Mary Fortis	D.C.
A.B. 1934, University of Wisconsin		Moskowitz, Margaret M.	Va.
A.M. 1941, University of Georgia		Moss, Anna Elizabeth	
Morgan, Billie	Va.	B.Chem.E. 1943, University of Louisville	Ky.
B.S. 1926, Farmville State Teachers College, Va.		Moss, Belinda Arthur	Md.
Morgan, Don Earle	D.C.	A.B. 1941, University of Kentucky	
Morgan, Edgar Donald	N.D.	Moss, Stanley Samuel	
Morgan, Eleanor Jean	Ala.	B.S.S. 1918, College of the City of New York	Mich.
Morgan, Eugene Thomas	D.C.	Mossamer, Virginia Margaret	Iowa
Morgan, Glenn Franklin	Md.	Moth, Robert Shibley	
Morgan, James Martin	Ala.	B.S. 1942, Iowa State College	Md.
A.B. 1941, University of Alabama		Mott, Richard Henry, Jr.	D.C.
Morgan, John Aston	Iowa	Mutz, Mary Virginia	D.C.
B.S. 1913, Harvard University		Moubray, Helen Louise	D.C.
Morgan, John William	D.C.	Moul, George Edward, Jr.	N.J.
Morgan, Madison Bruce	Md.	Mouranes, Shirley Mildred	D.C.
Morgan, Robert Frederick	D.C.	Moximo, Alice	N.J.
B.S. in Ed. 1941, Temple University		Moy, Ernest Don	D.C.
Morgan, Virginia Dare	N.C.	Mow, Virginia	
Morgan, Walter Lee	Ala.	Mucciola, Clotilda	
Morgart, Lena	Pa.		
A.B. 1941, The George Washington University			
Moriarty, Ethel Lourse	Mass.		

Mucknick, Sarah Belva	D.C.	Murphy, Malcolm Purves	Pa.
Muehlhause, William	D.C.	B.S. 1942, Harvard University	
Mueller, Helen LaVerne	Va.	Murphy, Mary Clare	D.C.
Muhonen, Edith K.	Minn.	A.B. 1949, Arkansas State College	
Muhonen, Neil Nicholas	Minn.	Murphy, Mary Margaret	D.C.
Mulcahy, Walter Carroll	N.Y.	Murphy, Rachel Chapman	N.C.
Mulheam, Margaret Mary	Pa.	Murphy, Robert Bernard	Wis.
A.B. 1943, College of New Rochelle		Murphy, Thomas, Jr.	Pa.
Muluz, Lewis	D.C.	B.S. in Comm. 1942, Drexel Institute of Technology	
Mulaney, Ann Marie	D.C.	Murphy, William Jeremiah	D.C.
Mullen, John Patrick	D.C.	Murray, Catherine M.	D.C.
Mullen, Walter Raymond	Va.	Mus B. 1921, University of Wisconsin	
B.Ed. 1949, Illinois State Normal University		Mus M. 1928, Catholic University of America	
Mullendore, Betty Jane	D.C.	Murray, Donald McLeish	N.Y.
Muller, Marie Etta	Va.	A.M. 1940, University of Kentucky	
Muller, Olive Mary	Va.	Murray, Herbert Henry	D.C.
Muller, Victor Casper	Va.	Murray, Imelda Frances	D.C.
B.S. 1941, University of Southern California		Murray, James Gorsuch	Id.
Mulligan, Mary Annette	D.C.	Murray, John Henry	W Va.
Mullikin, Richard John	D.C.	Murray, Malcolm Holden	D.C.
LL.B. 1941, Georgetown University		Murray, Raymond Patrick	D.C.
Mullin, Mary Ann	D.C.	Murray, Sydney	D.C.
Mullins, Elwood Hatcher	Va.	Murrow, Juanita Smith	
Mullins, George Gordon	Va.	A.B. 1930, Florida Southern College	S.D.
A.B. 1945, Hamline University		Murtha, Mary Margaret	
Mullins, Jeanette King	Id.	A.B. 1918, University of South Dakota	
Mullins, Jessie Edith	Va.	Muse, Claude Revere, Jr.	Va.
Molt, A. Fawcett Krum	Pa.	Muse, Dorothy Crumpler	D.C.
Molloy, Madeline Therese	Mass.	A.B. 1947, Elizabeth City State Teachers College	Kans.
Molloy, Clare Frederick	D.C.	Muse, Margaret B.	D.C.
A.B. 1927, A.M. 1936, University of California		Musgrove, Eva Cullen	Va.
Muney, Dorothy Adele	Va.	Musgrove, Evelyn Flago	
Mundinger, Gerhard Herman	Ariz.	B.S. 1939, Tufts College	
A.B. 1936, University of Arizona		Mushabac, Robert J.	D.C.
Munger, Lorraine Junette	Va.	A.B. 1942, Brooklyn College	
Munn, Lewin B. Browning	D.C.	Musolino, Teresa	D.C.
Munro, Robert Sterling	D.C.	Musselman, Ruth E.	Pa.
Munson, Betty Maxine	Ind.	Musselwhite, Catherine Virginia	Id.
A.B. 1941, The George Washington University		Mutchler, Thomas Edward, Jr.	D.C.
Murchison, David Claudius	D.C.	Muzzes, Susan Ann	N.Y.
Murdock, Joseph Boyd	D.C.	Myer, Ruth Estelle	
Murnane, Jeanne Marie	D.C.	A.B. 1937, Hunter College	
Murphy, Elton Ira, Jr.	Tenn.	Myers, Arthur Raben	Id.
Murphy, Ruth Virginia	Va.	Myers, Barbara Jean	D.C.
Murphy, Albert Brown	D.C.	Myers, Charles Frank	D.C.
A.B. 1941, Baylor College		Myers, E. Evelyn	Va.
J.D. 1942, The George Washington University		Myers, Edward S.	D.C.
Murphy, Anna Lu	Ill.	LL.B. 1914, Georgetown University	
A.B. 1944, The George Washington University		Myers, George Ford	D.C.
Murphy, Barbara Marie	D.C.	Myers, Helen Sherman	
Murphy, Catherine Elizabeth	Kans.	B.S. 1940, The George Washington University	
Murphy, Dorothy Catherine	Wis.	Myers, Lorna Jean	Va.
A.B. 1944, University of Wisconsin		Myers, Mildred Isabel	D.C.
Murphy, Eleanor Marguerite	D.C.	Myers, Polly Brooke	Id.
Murphy, Eleanor Ruth	D.C.	Myers, Richard Clayton	D.C.
Murphy, Filmeda Mills	Fla.	A.B. 1945, Princeton University	
Murphy, Gertrude Mary	D.C.	Myers, Robert Holt	Id.
Murphy, Irene	W.Va.	A.B. 1940, Princeton University	
A.B. 1940, Glenville State Teachers College		Myers, Sara Marie	N.I.
Murphy, Jay Wesley	Ill.	Myers, Virginia Anne	Id.
A.B. 1931, University of Illinois		Myhater, Marie Louise	N.D.
J.D. 1943, LL.M. 1944, The George Washington University		A.B. and B.S. in Ed. 1921, A.M. 1941, University of North Dakota	
Murphy, Joan Catherine	D.C.	Myslivec, Vaclav	D.C.
A.B. 1924, The George Washington University			

N			
Nacle, John J.	Ill.	Nelson, Lewis Clair	Utah
Nadarzynski, Raymond Francis	Ill.	B.S. 1939, Utah State Agricultural College	
Nadeau, Frances N.	Tex.	Nelson, Lois E.	Neb.
Nadel, Sidney	D.C.	Nelson, Marion Lucile	Minn.
Nadler, Frances	Mass.	Nelson, Marjorie Bonnis	D.C.
Naecker, Elizabeth Anne	D.C.	Nelson, Mary Anne	Wa.
A.B. 1945, Trinity College		Nelson, Mary Jane	Va.
Naecker, Marie Anne	D.C.	Nelson, Phyllis Elizabeth	Conn.
B.S. 1937, Wilson Teachers College		Nelson, Raymonde Sophie	D.C.
Nahas, Foyek Amin	D.C.	Nelson, Richard Andrew	Wash.
Nahas, George Fred	Conn.	Nelson, Russell Kermit	Minn.
Nahm, Doris	D.C.	Nelson, Ruth May Karolina	Ill.
Nahme, Muriel Lee	D.C.	Nelson, Stuart David	Conn.
Nail, Gerald	Okla.	Nelson, Theodore Warren	D.C.
Naill, Eugene Jacob	Md.	Nerheim, Phyllis Jane	D.C.
Naillé, Virginia Fitz	Va.	A.B. 1943, University of Washington	
A.B. 1945, College of William and Mary		Neri, Anthony Joseph	D.C.
Naiman, Robert Morton	D.C.	Nesbit, Barbara Agnes	D.C.
A.B. 1943, The George Washington University		Nesbitt, Henry Clay	D.C.
Nakarada, Mary Elaine	D.C.	Nesbitt, John	D.C.
Nakasian, Patricia Joan	D.C.	Nessa, Ernievia J.	M.
B.S. 1944, Pennsylvania State College		Nessul, Norman David	D.C.
Nalls, Garland Kennedy	Va.	Nester, Sue Adelaine	Ill.
Nalla, John Willard, Jr.	Md.	Neubert, Carl	D.C.
Nameth, Betty Evelyn	D.C.	Neubert, Robert Alvin	Vt.
Nance, Elizabeth Boyd	Ga.	Neufeld, Arthur Irwin	D.C.
Nance, Ella Dunlap	S.C.	Neuils, Florence Irene	Vt.
Nanos, Virginia Andrea	D.C.	Neumann, Margaret Jane	D.C.
Narcisenfeld, Calvin Bertrand	D.C.	Neuss, Cecile	N.Y.
Nash, M. Eleanor	Kans.	Nevik, Florence Irene	Vt.
Nassif, Helen	Iowa	Neville, James Patrick	Neb.
Nations, Blanche L.	D.C.	Nevin, John Irving	Md.
Natwick, Melba Maxine	S.D.	New, Justin Derieux	D.C.
Naugle, Glenn Lamar	Md.	New, Ricey Sylvester, Jr.	D.C.
Naylor, Betty Yingling	Md.	Newberger, Vera S.	D.C.
Naylor, Guy Rodgers, Jr.	Md.	Newcomb, John Arthur	Md.
Neafsey, John Francis, Jr.	Mass.	Newcomb, Margaret Elaine	Okla.
Neal, Jacqueline Mary	Va.	Newell, Charles Conklin	D.C.
A.B. 1941, University of Toledo		Newell, George Brandon	Ill.
Neal, James Robert, Jr.	Va.	Newkirk, George Francis	D.C.
Neal, Thomas Ellison	Ga.	Newkirk, LeRoy	Va.
A.B. 1940, The George Washington University		Newland, Eleanor Janet	Pa.
Neff, Elizabeth Gertrude	D.C.	Newlin, Joseph Homan	
Neff, Geneva Frances	Va.	A.B. 1942, The George Washington University	N.Y.
Neff, R. Jean	Ohio	Newman, Leon	D.C.
Nexley, Harrison Wayland	Calif.	B.S. in S.S. 1942, College of the City of New York	
Nexley, Jessie Marie	Ind.	Newman, Sanford Bernhart	
Nexus, Mildred E.	Md.	B.S. 1936, Long Island University	Calif.
B.S. 1927, Rhode Island State College		A.M. 1941, The George Washington University	
B.N. 1940, Yale University		Newman, William	
A.M. 1943, The George Washington University		A.B. 1929, University of California at Los Angeles	Ariz.
Nexus, Raymond Anthony	Md.	Newmark, Philip Marcus	D.C.
Nendorf, Sol	Pa.	Newmyer, Alvin Leroy, Jr.	Pa.
Neizer, Marianna	Ohio	B.S. 1940, University of Virginia	
Neil, Richard	D.C.	Newpher, Ivan Woodrow	
Neilson, Robert Oliver	Calif.	A.B. 1937, Franklin and Marshall College	Ga.
Neller, Francis Jack	Mich.	Newsome, George Marvin	Iowa
L.L.B. 1933, Tulane University		Neymeyer, Frances Nadine	Ill.
Nellor, John Harold	Md.	Nicholas, William	D.C.
Nelson, Bertle	D.C.	Nicholas, Charles Chester	D.C.
Nelson, Beulah Edith	D.C.	Nichols, Charles Kelsey	
Nelson, Carlton Gustave	N.D.	A.B. 1937, Colgate University	W.Va.
B.S.C. 1937, L.L.B. 1939, University of North Dakota		A.M. 1940, Syracuse University	D.C.
Nelson, Donald Sell	D.C.	Nichols, Frank Dean	D.C.
Nelson, G. Lois	D.C.	Nichols, Gloria Verontea	N.Y.
A.B. 1935, University of Maryland		Nichols, Harry Edwin	
		Nichols, Helen	



Nichols, John Ptomey	D.C.	Norris, Drusilla Jane	Ill.
Nichols, John Solon	D.C.	Norris, Edith Tipton	D.C.
Nichols, Margaret Anne	D.C.	A.B. 1945, The George Washington University	
Nichols, Patricia Sisson	Va.	Norris, George Todd	Ohio
Nichols, Phyllis Annette	D.C.	B.S. in Ed. 1934, Bowling Green State University	
A.B. 1942, The George Washington University		Norris, Jerome Joseph	D.C.
Nickelsen, John William	Calif.	Norris, Leo Brison	D.C.
Niedermeyer, Carol Elizabeth	Ohio	Norris, Margaret Adelaide	D.C.
Niel, Helen Osterlath	Md.	North, Arthur	Pa.
M.S. 1942, Columbia University		North, Camille Ian	D.C.
Niedertrasser, Robert Edward	D.C.	North, Ramona Ruth	D.C.
Nielson, Jacob Clark	Ala.	Northrup, Graham Theodore	D.C.
A.B. 1940, University of Alabama		Norton, Helen Ryan	D.C.
Nielson, Alice Louise	Nebr.	Norton, Hugh Stanton	Nev.
A.B. 1948, A.M. 1940, University of Nebraska		Norton, James R.	Md.
Nielson, Glen E.	Va.	Norton, Shirley Ann	Md.
B.S. in E.E. 1937, The George Washington University		Norwood, Elizabeth Chadwick	D.C.
Nielson, Jean Kelly	Va.	Norwood, James Lewis	D.C.
B.S. 1939, A.M. 1941, The George Washington University		Norwood, Mary Evelyn	Ala.
Niemann, Richard Charles	Okla.	Nowal, Walter Stanley	Pa.
Niemi, Arne Elias	D.C.	A.M. 1943, The George Washington University	
Nienaber, Leonard D.	Pa.	Notary, Murieta Bertha	D.C.
Nieto, William	D.C.	A.B. 1942, The George Washington University	
Nimmo, Joseph	Minn.	Nott, Joseph George	D.C.
B.S. 1939, St. Thomas College		Novakovich, Nada	Nev.
Nikolaopoulos, Louis Nicholas	D.C.	Novick, Anna	Wva.
Niles, Irene Marie	Mich.	Novikov, Nikolai Vasilievich	D.C.
Niles, George Joseph	Ill.	Nowager, Mary Alice	D.C.
Niles, Sylvia Eugenie	Utah	Nowak, Leopoldina Antonie	D.C.
A.B. 1930, University of Utah		Nowak, Olga Stella	Pa.
Nimeroff, Isadora	Pa.	A.B. 1944, Temple University	
Nimetz, Irene	D.C.	Noyes, Lelia Gardon	D.C.
Nimmons, Ellen	England	Noyes, William McCrum	D.C.
Niner, Robert	D.C.	Nugent, Adelaide	D.C.
Nissander, Frank Clyde	Mo.	Nugent, Paul Raymond	Md.
A.B. 1941, Colorado College		B.S. 1942, The George Washington University	
Nixon, Joseph Kinson	Ohio	Nuhn, John Alfred	D.C.
A.B. 1944, The George Washington University		Nunan, Craig Spencer	Calif.
Nixon, Florence Guild	Va.	B.S. 1940, University of California	
A.B. 1945, The George Washington University		Nunley, William Torrance	D.C.
Noble, Ben Paul	Va.	A.B. 1940, Marshall College	
Noble, David Adelbert	D.C.	M.S. 1942, Syracuse University	
Noble, Patricia Merle	D.C.	Nunn, Guy T.	Mich.
Noble, John T.	Pa.	A.B. 1936, Oberlin College	
B.S.C. 1941, Temple University		A.M. 1940, Oxford University	
Nockert, Rosemary Patricia	Miss.	Nunn, Jeanne Marie	Va.
Nolan, Edward Carlson	D.C.	A.B. 1947, University of Michigan	
Nohel, Victor Albert, Jr.	Va.	Nussbaum, George Leight	D.C.
Nolan, John Adolph	Md.	Nussbaum, Harold Joseph	N.Y.
Nolan, Barbara Barclay	Mich.	Nush, Eleanor I.	N.Y.
A.B. 1944, Wellesley College		Nuttall, Robert Bostick	Va.
Nolan, Catherine Anne	N.Y.	Nuttmann, Harold Franklin	D.C.
Nolta, William Robert	Md.	Nuttman, Michael Y.	D.C.
B.S. 1942, University of Illinois		B.S. 1942, University of California	
Nordberg, Thomas Bernard	N.C.	M.S. 1933, Academy of Agricultural Sciences (USSR)	
A.B. 1945, The George Washington University	Va.	Sc.D. 1915, Cornell University	Md.
Nordholm, Eric Greg	N.Y.	Nydegger, Margaret Menzies	D.C.
Norbeck, Sarah Camp	Fla.	Nye, Theresa Gloria	N.Y.
Norica, Nikolai	Russia	Nygaard, John Clarence	Md.
Norman, Elizabeth Murray	Cal.	Nykn, Edward Warren	
A.B. 1944, University of Georgia		B.S. 1942, University of Maryland	
Norman, Robert Merle	Ill.		O
Norment, Mary Hilmyer	D.C.	Oakes, James Lanham	Ark.
Norris, Donald Arthur	N.Y.	Oakley, Jean Rose	D.C.
A.B. 1943, University of Rochester		Oakley, Loretta Mary	Ohio
		Oare, Margie Dell	D.C.

Oberg, Edna Louise	Nebr.	O'Leary, Genevieve Loretta	Wash.
Oberg, Maxine Adele	D.C.	O'Leary, Mary Jean	D.C.
O Blazney, Andrew Anthony	D.C.	Oler, Ruth Bordow	D.C.
O'Brien, Brian	N.Y.	Olesen, Donald Giddings	D.C.
B.S. 1944, University of Rochester		A.B. 1941, Swarthmore College	D.C.
O'Brien, James Joseph	Va.	Olin, Wilbur C.	Mo.
O'Brien, Jean Catherine	Iowa	Olineth, Elaine Marilyn	Mo.
O'Brien, John Lawrence	Mass.	B.S. 1941, Southwest Missouri State	Mo.
O'Brien, Keturah	D.C.	Teachers College	Mo.
O'Brien, Louis Michael	Ill.	Olive, William M.	Va.
O'Brien, Marilyn Patricia	D.C.	Oliver, Maisie Elizabeth	D.C.
O'Brien, Mary Marcella	Oreg.	Oliver, Malven Reed	N.C.
O'Brien, Ralph Vincent	D.C.	Oliviere, George Raphael	Va.
O'Brien, Robert John	D.C.	Olmssted, Harry Huston	D.C.
O'Brien, Rosemary Elaine	Idaho	O'Loughlin, Francis Xavier	D.C.
A.B. 1946, University of Montana		Olsen, Benjamin C.	S.D.
O'Byrne, John Coastes, Jr.	N.Y.	Olsen, Elwood Harlan	
A.B. 1941, M.S. 1943, Syracuse		A.B. 1938, Morningside College	
University		I.D. 1941, University of Iowa	D.C.
O'Connell, Francis Patrick	Mich.	Olson, Carlous LeRoy	N.Y.
B.Chem Eng. 1947, University of		Olson, Catherine Cynthia	Utah
Detroit		Olson, Charles Paul	
O'Connell, Henry F., Jr.	Mass.	B.S. 1940, Utah State Agricultural	N.Y.
A.B. 1941, Boston College		College	
O'Connell, James Frederick	S.C.	Olson, Clyde Louis	
A.B. 1945, The George Washington		B.S. 1941, United States Coast Guard	
University		Academy	Ill.
O'Connor, Charles Frederick II	Va.	Olson, Ernest Charles	
O'Connor, Clare Patricia	D.C.	A.B. 1941, University of Chicago	D.C.
O'Connor, Edward John, Jr.	D.C.	Olson, Esther Clarine	D.C.
O'Connor, James Woodrow	Tenn.	Olson, Hazel Viola	D.C.
O'Connor, Jane Gertrude	D.C.	Olson, Valera Sullivan	
O'Connor, William E.	Mass.	A.B., A.M. 1940, University of	
A.B. 1942, Brown University		Pennsylvania	D.C.
O'Connor, Patricia Atlee	D.C.	Olsson, Mary Louise	W.S.
Odison, Brian	Va.	Olsewski, Martha D.	N.Y.
O'Dea, Lawrence Aloysius	D.C.	O'Malley, Helen Ford	Va.
O'Donnell, Alue Louise	Wash.	O'Meara, John Joseph	N.Y.
O'Donnell, Horace Paul	D.C.	Onbach, George Bernard	
O'Donnell, James Edward	R.I.	B.S. 1941, College of the City of	
Ph.B. 1941, Providence College		New York	W.Va.
O'Donnell, Kathryn Brooks	Va.	O'Neal, Albert Jack, Jr.	D.C.
O'Donnell, Paul Daniel	Mass.	O'Neal, Mary Lee	Ga.
O'Dwyer, Mary Ann	D.C.	O'Neal, Sara Elizabeth	Va.
Oelschlaeger, Lodiine June	Ark.	O'Neal, Virginia Anne	Va.
Offutt, Eleanor Rebecca	D.C.	O'Neal, William Leroy	W.Va.
O'Flaherty, Barbara Jean	D.C.	O'Neil, Clara Louise	Mt.
O'Flaherty, Daniel	Va.	O'Neill, Claire V.	D.C.
O'Gara, Roger William	D.C.	O'Neill, Doudair Patricia	P.R.
Ogden, Anna Grace	Va.	O'Neill, Edward	
Ogden, Glenn E.	Md.	B.S. 1946, University of Puerto Rico	Pa.
Ogden, Mary Anderson	D.C.	O'Neill, James Eugene	
Ogilby, Remsen Brinckerhoff	Md.	B.S. 1942, Carnegie Institute of	
A.B. 1940, Harvard University		Technology	Mt.
Oglesby, Robert Dorsey	D.C.	O'Neill Robert Joseph, Jr.	W.Va.
B.S. 1941, University of		Oney, Charles Edward	Ga.
Pennsylvania		Onion, Oliver Lloyd	
Ogletree, Charlie Joe	Ga.	A.B. 1929, Lake Forest College	W.Va.
Ombene, Blanche Marietta	D.C.	Onisko, Irene	N.Y.
O'Grady, Martha Mary	D.C.	Onken, George Marcellus	N.P.
O'Hara, Donald C.	Va.	A.B. 1936, Princeton University	D.C.
I.L.B. 1941, The George Washington		Oppenard, Margaret Elaine	Mt.
University		Oppetman, Frank Ernest	Mass.
O'Hara Hazel	D.C.	O'Reilly, Marjorie Helen	
A.B. 1921, Syracuse University		Orentlicher, Herman Israel	
O'Hern, Edward Francis	Mo.	A.B. 1931, LL.B. 1936, Harvard	N.Y.
A.B. 1942, University of Missouri		University	Mt.
O'Keef, John E.	D.C.	Oretsky, Adina	
O'Keefe, Patricia Helen	D.C.	Orndoff, Mary Ann McCann	
O'Kelly, Ida Aline	Va.	A.B. 1942, The George Washington	Min.
A.B. 1941, University of Wyoming		University	D.C.
Oldaker, Hazel Leata	D.C.	O'Rourke, Jean Mary	Mont.
A.B. 1942, The George Washington		O'Rourke, Nancy Jane	
University		O'Rourke, Thomas Francis	

Students Registered

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Orr, Charles Victor	Md.	Paciga, John Joseph	Pa.
Oringer, William Hubert	D.C.	Packard, Howard Merrill	Ill.
B.S. 1943, Catholic University of America		B.S. 1932, Northwestern University	
Osann, Edward William, Jr.	Md.	Packard, John Cooper, Jr.	D.C.
B.M.E. 1939, Rensselaer Polytechnic Institute		Packer, Ellis Reed	Pa.
Osborn, Dolores Hazel	D.C.	Packer, Florence E.	Mo.
Osborn, William Guy	Mo.	Paden, Don W.	Va.
B.S. in Ed. 1940, Southwest Missouri State Teachers College		Padgett, Adaline	S.C.
Osborne, Barbara Vonne	Va.	A.B. 1932, Columbia College	
Osborne, Nannie Lou	D.C.	Padgett, Jean Ashleigh	D.C.
Osborne, Phillip Wallace	D.C.	Pagan-Cruz, Florence	P.R.
Osborne, Sarah Louise	D.C.	B.S. in C.Ed. 1934, M.A. 1940, B.S.S. 1940, University of Puerto Rico	
Osborne, Virginia P.	Va.	Page, Helen Bell	D.C.
Osborn, Helen Wyatt	D.C.	A.B. 1928, The George Washington University	
Osburn, Emma Louise	D.C.	Page, John Franklin	Md.
Osgood, Elliott Dayton	D.C.	Page, Margaret Marie	D.C.
O'Shea, Patricia Kathryn	Pa.	Page, Natalie	N.Y.
A.B. 1943, College of William and Mary		Page, William Hasbrouck	Md.
Oshinsky, Doris Daisy	D.C.	Page, William Lee	Va.
Oser, Phyllis Ann	D.C.	A.B. 1942, The George Washington University	
Oso, Anna Dolores	Pa.	Paster, Elizabeth Eugenia	D.C.
Osta, Cecilia A.	D.C.	Patagian, Norman	Mass.
A.B. 1936, A.M. 1938, University of California at Los Angeles		Patne, John William	D.C.
Osterman, Herbert William	Mich.	Painter, Eleanor Margaret	D.C.
B.S. 1944, University of Michigan		Painter, Merle Elmer	D.C.
Osterstock, Dora	D.C.	B.S. in Econ. 1942, University of Pittsburgh	
Ostrow, Bernard Howard	D.C.	Paisley, Elizabeth Ann	Va.
A.B. 1944, Miami University		Palant, Adele	Mo.
Oswald, Elizabeth Janet	Va.	Paller, Fortune Simone	D.C.
B.S. 1937, University of Maryland		Pallett, Eugene	Fla.
Oswald, Jean Louise	D.C.	Pallotta, Elizabeth Mary	Utah
O'Toole, Ursula Elizabeth	Mich.	Palm, Robert Hardy	Tex.
Ott, Francis Mitchell	S.C.	Palmer, Carroll Funk	Md.
Ott, Mildred	D.C.	B.S. 1940, University of Maryland	
Otterson, Lili Margreth	D.C.	Ph.D. 1944, University of Pennsylvania	
Ottling, Doris Juliana	Va.	Palmer, Constance Funk	Md.
Overby, William Joseph	Md.	Palmer, Duval Austin	D.C.
Overby, Connie Sadie	D.C.	Palmer, Edna Mae	D.C.
Overson, John Reagan	Ind.	Palmer, Grace Crosswell	Md.
Owen, Jason Joseph, Jr.	D.C.	Palmer, Jean	N.Y.
Owen, Jeannette	D.C.	Palmer, John Gilbert	D.C.
A.B. 1943, University of Maryland		Palmer, Karl Gilbert	Oreg.
Owen, Mary Elizabeth	Tex.	B.S. 1941, Oregon State College	
Owen, Ula P.	Tex.	Palmer, Katherine Virginia	D.C.
B.S. 1945, The George Washington University		Palmer, Mary Louie	Va.
Owens, Dorothy Andrews	Va.	A.B. 1946, Lincoln Memorial University	
A.B. 1942, Cornell University		Palmer, Patricia Anne	D.C.
Owens, Dorothy K.	D.C.	Palmer, Phyllis Blake	Mass.
Owens, E. Watson	Iowa	A.B. 1941, A.M. 1944, Boston University	
B.C.S. 1943, Southeastern State College		Palmer, William Colton	Md.
Owens, Helen Vincent	Wyo.	Palmer, Lowell Richard	D.C.
Owens, Jacqueline Shirley	Va.	Panagou, Demetria	D.C.
A.B. 1943, The George Washington University		Panagou, Irene Eleanore	D.C.
Owens, Margaret Winitied	Ohio	Panagou, Jane O'Bannon	Md.
Owens, Marion L.	Okla.	Pandit, Marysue K.	D.C.
Owens, Walter Patrick	Wash.	Panizza, Louis Robert	Va.
Orendale, Isaac Mary	Wis.	Pankow, Irene Ernest	N.Y.
Oxley, Pauline Cole	Md.	Panzarini, Pasquale	D.C.
Oyster, David Fairfax	Va.	Paper, Martin	D.C.
		Pappas, Frank George	D.C.
		Pappas, Anne Ernest	N.Y.
		Parente, Peter	
		A.B. 1942, The George Washington University	
		Pargamen, Sol Israel	D.C.



Paris, Mary Doris	N.Y.	Patulski, Stacia Monica	N.Y.
Park, Helen Dorothy	Va.	Paul, Eudell George	Ind.
Park, Robert Hiram	N.J.	A.B. 1944, University of Illinois	D.C.
B.S. 1924, Massachusetts Institute of Technology		Paul, Richard Rea	D.C.
Parker, Barbara	D.C.	Pauley, Henry Monroe, Jr.	
Parker, Cecelia Sherman	D.C.	A.B. 1940, New York University	Va.
Parker, Clarence Odell	Va.	Paull, Hilda May	D.C.
A.B. 1944, The George Washington University		Paulos, David Theodore	D.C.
Parker, Daisy	Fla.	Paulsen, Wilbur Harper	Minn.
A.B. 1937, Florida State College for Women		Paulson, Jennie Geraldine	Md.
A.M. 1940, University of Virginia		Pauly, Katherine Jeanne	N.Y.
Parker, Edith Helene	Tex.	Pavia, Emma Edna	Md.
A.B. 1945, The George Washington University		Pavia, Isamin Antonio	Ohio
Parker, Emulon Bernard	Va.	Pavlat, Robert Kendall	
A.B. 1941, Wake Forest College		Pavlek, Walter	
Parker, Gloria Ann	D.C.	B.S. 1941, Western Reserve University	Mich.
Parker, Jane Timmons	Va.	Pawlowski, Norman	Va.
Parker, Lawrence Gilbert, Jr.	D.C.	Paxton, Robert Stratton	D.C.
Parker, Ralph Chandler, Jr.	Md.	Payne, Camilla Moody	
A.B. 1934, Union College		B.S. 1929, Mary Washington College	N.C.
M.D. 1937, Harvard University		Payne, Carolyn Flowers	D.C.
Parker, Raymond John	D.C.	Payne, Francis Xavier	Va.
Parker, Victor Harwell	D.C.	Payne, Harold Wilson	Md.
A.B. 1941, Southwestern Louisiana Institute		Payne, Jane Beverly	Va.
Parles, James Lloyd	D.C.	Payne, Joyce Lee	Pa.
Park, Cecelia Jane	Va.	Payne, Margaret Anne	D.C.
Parkinson, Virginia I.	D.C.	Payne, Mary Lucht	W.Va.
A.B. 1944, University of Wisconsin		Payne, Pauline Virginia	Va.
Parks, Arthur O.	Ill.	Payne, Ralph Lucian	Va.
B.E. 1935, Western Illinois State Teachers College		Payne, Virginia Ann	D.C.
Parmeter, Margaret Anne	D.C.	Payne, William Matheson	
Parr, Louise Charlotte	Ind.	B.S. in Ind. Arts, 1939, North Carolina State College of Agriculture and Engineering	D.C.
Parrish, Sarah Elsie	D.C.	Pear, Bertram Lincoln	D.C.
Parrish, John Poindexter	Va.	Pear, Philip	
Parr, Mary Votaw	Mo.	A.B. 1941, The George Washington University	N.Y.
Parrish, Matthew Darnaby	Va.	Pearce, Betsey Bradford	D.C.
A.B. 1939, University of Virginia		Pearce, Betty Marie	D.C.
Parrish, Shirley May	D.C.	Pearlman, Julius	Md.
Parsons, William	D.C.	Pearson, Florence H.	D.C.
Pasalis, Julius Felix	Ill.	Pearson, Mary Frances	Va.
Paskwitz, Harry	Ala.	Pearson, Nancy Genevieve	Pa.
Pasternak, Mildred	N.Y.	Pearson, Norman Carter	Ind.
Pasternak, Ann	Va.	Pearson, Ruth Elizabeth	Ind.
Pasternak, Walter Paul	W.Va.	Pearson, Thurston Blaser	Tex.
A.B. 1942, Salem College		Peay, Lawrence William	N.Y.
Paternoster, Gene Cressman	Va.	Peck, Bernard	
Patraiko, John	N.Y.	A.B. 1939, Indiana University	
Patriek, Arthur Shepard	Md.	A.M. 1941, Columbia University	D.C.
A.B. in Ed. 1944, State Teachers College, Whitewater, Wis.		Peck, Martha Aurelia	Calif.
A.M. 1939, University of Iowa		Peckham, Georgia Clodelle	Calif.
Patterson, Betty Louise	D.C.	Peckham, James Benjamin, Jr.	
Patterson, Donald MacKell	N.Y.	A.B. 1930, LL.B. 1933, Stanford University	Utah
B.S. in C.E. 1930, Bicknell University		Pedersen, Alfred	S.D.
I.D. 1941, The George Washington University		Pederson, Merle Eldon	
Patterson, Ernest Harold	Pa.	B.S. 1943, South Dakota State College	Minn.
B.S. 1932, Temple University		Pederson, Wallace Henry	D.C.
Patterson, Gerald Raymond	Ohio	Podrazas, Amado	D.C.
Patterson, Harry Conyers	D.C.	Peel, Ella Leuvenia	D.C.
Patterson, Robert Lester, Jr.	Va.	Peel, Wilfred Everett	Mich.
B.S. 1942, West Texas State Teachers College		Peery, James Brown	K.
Patterson, William Amos	D.C.	Peet, Marguerite	Ill.
Pattie, Franklin Norris	D.C.	Peiffer, Donald Dean	S.D.
Patton, John Vevers, Jr.	Ill.	Peimann, Esther Elizabeth	Va.
		Peirce, Albert Edwin	D.C.
		Peisner, Arthur A.	Mass.
		Pelsser, Helene Elizabeth	
		A.B. 1940, Massachusetts State College	

Pell, Nuala O'Donnell	R.I.	Petty, Mary Elizabeth	D.C.
Pellerzi, Leo Maurice	Md.	Pettingrew, Jamie Lucille	Ark.
Peloso, Honorio Jose	D.C.	Pettit, Charles Joshua	D.C.
Pelton, Eleanor R.	D.C.	A.B. 1936, Ohio University	
Pelton, Marion Henrietta	Pa.	Petty, Bernard Leow	Calif.
B.S. 1934, Edinboro State Teachers College		Petty, Phyllis Elizabeth	Calif.
Pelton, Rose Marie	D.C.	Petty, Richard Alden	Va.
Pence, Carrie Rebecca	D.C.	Peurilly, Alberta Gilbert	Ohio
Pence, Thomas Arthur	D.C.	Peyron, Helen Agnes	Va.
Penna, William Allen	D.C.	Pevton, Roy Dallas	Va.
Pennefeather, Joseph Edmund	D.C.	Pfeiffer, Albert Randolph	D.C.
Penrod, Mary Louise	N.Y.	Pfeiffer, Virgil Charles	Mo.
Pepmeier, Anita Wilhelmina	D.C.	A.B. 1928, A.M. 1929, University of Kansas	
B.S. in Ed. 1940, Mary Washington College	Va.	Plouand, Charles Edward	Iowa
Pepper, Hobart Garrett	D.C.	B.S. 1943, Iowa State University	
Perau, Inga Ruth	D.C.	Pluntner, Carl Herman	Fla.
Percival, William R.	D.C.	Phair, Arlene Ethel	D.C.
Perez, German Chiriboga	D.C.	Phelan, Marguerita Marie	N.Y.
Pergande, Kenneth Harlan	Va.	Phelps, Norman P.	D.C.
Perkins, John W.	D.C.	Phelps, Vernon Graydon	D.C.
Perlman, Al B.	Wis.	Phelps, Wallace Nathan	D.C.
Perlo, Hyman Myer	D.C.	Pherson, John Randolph	D.C.
Perrester, Virginia Geraldine	D.C.	Philbeck, Robert Wilson	N.C.
Perrin, Sara Carol	D.C.	Philbrick, Marjorie Pauline	Mass.
Perron, George Peter	D.C.	A.B. 1943, Radcliffe College	
A.B. 1940, The George Washington University		Phillips, Anne Verbulecz	Ohio
Perron, Theodore Peter	D.C.	A.B. 1945, Ohio State University	
Perry, Elena Victoria	Rumania	Phillips, Cynthia Anne	Md.
Perry, Fannabell	Ky.	Phillips, George Osbourn	D.C.
Perry, Frances Patterson	D.C.	Phillips, Howard Matthew	D.C.
B.S. in Com. 1945, University of North Carolina		B.S. 1942, Wilson Teachers College	
Perry, Jacqueline Bates	D.C.	A.B. 1943, A.M. 1944, The George Washington University	
Perry, Jesse Parker, Jr.	N.C.	Phillips, Jeanette	Va.
Perry, Maria Margareta	Rumania	Phillips, Joseph Lincoln	Tex.
A.B., A.M. 1945, University of California at Los Angeles		A.B. 1943, The George Washington University	
Perry, Thomas Norman, Jr.	D.C.	Phillips, Laurence Vince	D.C.
Perry, William Henry	D.C.	Phillips, Lloyd James	D.C.
Perziani, Rosemary	Va.	Phillips, Lucille Anne	Pa.
Perzy, Sanford S.	Ohio	Phillips, Robert Thomas	D.C.
Persson, Norman Edward	D.C.	Phillips, Ruth Eleonore	Iowa
Peckind, Sarah Ruth	Ill.	Phillips, Ruth Virginia	Va.
Peters, Betty Joan	D.C.	Phillips, Thomas LeRoy, Jr.	Md.
Peters, Ethel Anne	N.J.	Phillips, William Deeble	R.I.
Peters, Laura	D.C.	Phillips, William Harry	Tenn.
Peters, Laura Lee	Iowa	A.B. 1942, LL.B. 1933, Cumberland University	
Petersen, Bertha Lee	Mo.	Phinney, Barbara Elizabeth	D.C.
Petersen, Harvey Adolf	D.C.	A.B. 1947, Wellesley College	
Petersen, Joseph Sidney, Jr.	La.	Phupps, Lester Earl	Mass.
B.S. 1936, Loyola University		Phasel, Jean Robert	D.C.
M.S. 1938, St. Louis University		Phasel, Lucy Marie	N.Y.
Petersen, Paul Holt	D.C.	Pickard, Howard Brevard	Okla.
Petersen, Anne Lois	Iowa	A.B. 1938, LL.B. 1940, University of Oklahoma	
Petersen, Dean W., Jr.	Va.	Pickett, Charles IV	Va.
B.S. 1941, University of Pennsylvania		Pickett, Daniel Thaine	Md.
Peterson, Edgar Francis, Jr.	D.C.	Pickett, Frances Marie	D.C.
Peterson, Eugene Thomas	Md.	Pickett, Patricia Irene	Va.
Peterson, Marie Ann	D.C.	Pickett, Robert Eugene	D.C.
B.E. 1930, Superior State Teachers College		Pida, George	Va.
A.M. 1941, University of Wisconsin		Pierce, Margaret Ann	D.C.
Peterson, Polly	Iowa	Pierse, Chester Clement	D.C.
Peterson, Robert Lenus	Kans.	A.B. 1921, Nebraska Wesleyan University	
Peterson, Roy Herbert	Va.	Piereson, Françoise Alberte	Belgium
Petralia, Rose Christine	D.C.	Pigott, Donald Ernest	Va.
Petrarca, Frederick A.	Colo.	Pigott, George Almas	D.C.
Petruhand, Alfonso	N.Y.	Pike, Sara Bernice	Md.
Petrou, Dimitris	Greece	Pildman, Beverly Elaine	D.C.
Petruso, Fannie Sari	Pa.	Pile, Rilla Q.	Ariz.

Pillman, Imogene M	Ga.	Pohl, May Williams	D.C.
Pillsbury, Curtis Bryant	D.C.	Pohutsky, Walter John	D.C.
Palmer, Mary Beth	Iowa	Pomata, Betty Lou	D.C.
Palson, Pauline Mae	Pa.	A.B. 1941, Montana State University	Pa.
A.B. 1939, Asbury College		Pokempner, Minadisa	
Piltch, Helen W	D.C.	A.B. 1944, Pennsylvania State College	N.Y.
Pinard, Therese Julianne	D.C.	Polak, Sylvia Rosalie	Ill.
Pineas, Arthur	Md.	Polakow, Henry	Va.
Pincus, Irving	N.Y.	Poland, Dorothy Gammack	
B.S. 1938, College of the City of New York		A.B. 1940, College of William and Mary	N.Y.
Pincus, Lou	Md.	Polchow, Alfred Christian	Md.
Pineite, M. Cecile	Maine	Pothamus, Betty Lou	N.Y.
A.B. 1942, University of Maine		Polinger, David Harris	D.C.
Pine, Thelma Virginia	D.C.	Polis, Irene Nicolas	Md.
Pinkerton, Cecil	D.C.	Polk, Matthew Steele	Va.
A.B. 1942, Texas Technological College		Pollack, Daniel Bernard	D.C.
Pinkham, Raymond Arthur	Mich.	Pollack, Jerome Lee	
B.S. 1942, Michigan State College		B.S. 1945, Franklin and Marshall College	Ohio
Pinn, Samuel, Jr.	N.Y.	Pollack, John Rogers	N.Y.
B.M.E. 1941, College of the City of New York		Pollak, Inez	
Piper, Charles Woods	Fla.	A.B. 1945, Vassar College	D.C.
Pipes, Dorothy	La.	Pollard, Anne Douglas	Ala.
B.S. 1944, Louisiana Polytechnic Institute		Pollard, Grace Opal	D.C.
Pirola, Antonio Pietro	D.C.	Pollard, John Ray	D.C.
Piskarev, Eugene Vladimirovich	D.C.	Pollierve, Ruth	D.C.
Pisner, Shirley Ann	D.C.	Pollin, Abraham	Va.
Pistorino, Charles John	Va.	Pollin, Albert	N.Y.
Pitman, Park Ware	Tex.	Pollock, Arnold Martin	
Pitner, Robert James	Miss.	Pomerantz, Jacob	
Pitt, Laud Rolland	Minn.	A.B. 1942, The George Washington University	Mich.
A.B. 1938, Northwestern University		Pomeroy, Wellington Ames	
A.M. 1945, A.B. in L.S. 1947, The George Washington University		B.S. in Chem Eng. 1942, Michigan State College	N.J.
Pittard, Ewell Brown	Va.	Pomponio, Angelina Ann	Va.
B.S. in M.E. 1938, University of Tennessee		Pomponio, Gloria Assunda	Mass.
Pittenger, Dorothy Elizabeth	Minn.	Pond, Hartley Linwood	Va.
Pittenger, Myrmae	Md.	B.S. 1942, University of Michigan	Va.
Pittman, Clayton Lawrence	D.C.	Pond, Patricia	Va.
Pitts, Madeline Viola	N.C.	Pond, William Judson	Mass.
Pitts, Martha Kathryn	N.C.	Ponder, Irene Jane	D.C.
Pivar, Sam	Ga.	Poole, Catherine Esther	D.C.
Piver, Julius S	D.C.	Poole, Merle Elwyn	D.C.
Pivovar, Jack Morton	Va.	Pope, Carroll Franklin, Jr.	Mich.
Plavak, Joseph Charles	D.C.	Pope, George Allan	
A.B. 1940, Dartmouth College		A.B. 1942, The George Washington University	Md.
M.D. 1944, Harvard University		Pope, Marjorie Lawless	D.C.
Place, John Warren, Jr.	Md.	Pope, Patricia Evelyn	Va.
A.B. 1940, Brown University		Pope, Robert Bruce	Ohio
Platt, Joan Miller	Conn.	Popka, Herman Edward	D.C.
Platt, Louise B.	Va.	Poppe, Mary Walker	D.C.
Pleacher, John King	D.C.	Poretsky, Selma Frances	N.I.
Plepis, Anna Olga	Pa.	Porte, William Lyon	
Plondke, George Winston	Va.	B.S. 1940, United States Military Academy	D.C.
Plondke, Margaret E	Va.	Porter, Ellis Gibson	
Plonski, Walter Alexander	D.C.	A.B. 1943, University of Virginia	D.C.
A.B. 1940, Duquesne University		Porter, Gail	Kan.
Plowman, Dorothy Anne	D.C.	Porter, Melvin A.	Ky.
Plunkett, Edmund Robert	Md.	Porter, Rosemary	Utah
B.S. 1944, College of William and Mary		Porter, Ross George	Mass.
Plunkett, Malvin Blaine	Va.	Porter, Ruth Florence	D.C.
Plunkett, Wilma Marie	Mich.	Poskus, Joseph John	D.C.
Plyer, Mary Eleanor	D.C.	Posner, Irene	
Podolski, Gerald Anthony	D.C.	B.S. 1945, The George Washington University	D.C.
Poe, Joseph Warner	D.C.	Post, Carolyn Lucille	Mich.
Pohl, Marian Evelyn	D.C.	Post, John Sinclair	
B.S. 1943, A.M. 1944, Duke University		B.S. in Ch.E. 1943, Wayne University	



Post, Lawrence A. B.S. 1943, University of Wisconsin	Wis.	Prendergast, Bert T.	D.C.
Potter, Gordon Vanderlip A.B. 1941, The George Washington University	Va.	Prentice, Anne Broshears	D.C.
Potter, Howard Spencer B.S. 1938, Pennsylvania State College	Pa.	Prentice, James Harvey	D.C.
M.S. 1940, Cornell University		Prentiss, Catherine Watkins A.B. 1944, The George Washington University	D.C.
Potter, Jane Elizabeth	Md.	Presler, Stephen Franklin	Tex.
Potter, Peter Eugene	Va.	Pressley, Lois Alice	Va.
Potter, Ralph E. B.M.E. 1945, The George Washington University	D.C.	Pressly, Janet Maxine	Mich.
Potter, Raymond Selva	W.Va.	Pressman, Saul B.M.E. 1941, College of the City of New York	N.Y.
Potter, Robert Thomson	Va.	Presto, Ernest Carl	D.C.
Potter, Walter Ross	D.C.	Pribram, John Gerard	N.J.
Potts, Doris	D.C.	Price, Elizabeth A.B. 1941, Columbia University	
Potts, Lila Olivia	Pa.	A.M. 1943, University of Minnesota	Va.
Potts, Kathleen Mary A.B. 1943, Illinois Wesleyan University	Ill.	Price, Elsie Elizabeth	La.
Poulase, Alexandria	D.C.	Price, Frederick William B.S. 1941, The George Washington University	
Poulsen, Paul Kristian, Jr.	Wis.	Price, Joseph Lindsey, Jr.	Va.
Poultney, Myrtle Orville B.S. 1938, University of California	D.C.	Price, Loyd Mock	Ark.
Pounds, Gaines, Aubrey	D.C.	Price, Marvin A.	D.C.
Pounds, Mary Evelyn	Va.	Price, Myrtle Cathleen A.B. 1944, East Carolina Teachers College	Ohio
Powel, Samuel Franklin III	Md.	Price, Richard Royer A.B. 1941, Ohio State University	D.C.
Powell, Alfred Allen	Va.	Price, Saul B.S. 1940, College of the City of New York	D.C.
Powell, Betty Jane	Va.	Price, Simeon Taylor	D.C.
Powell, Diana Kearny L.L.B. 1940, L.L.M. 1942, Columbia University	N.J.	Price, Troy Howard A.M. 1936, University of Texas	D.C.
Powell, Louise Hill Conkey A.B. 1941, The George Washington University	D.C.	Price, William Sidway	D.C.
M.T. 1941, Wilson Teachers College		Prichard, John E.	D.C.
Powell, Thomas David III A.B. 1941, Union University	D.C.	Prichard, Jean Carter	Md.
L.L.B. 1947, University of Buffalo		Prichard, Robert Williams	N.J.
Powers, Andrew Paul	N.Y.	Pridden, Eddie Gertha, Jr.	D.C.
Powers, Doris Court	D.C.	Prieto, Lise Ramon	P.R.
Powers, James Richard	Mass.	Prieto, Rachel Adele	D.C.
Powers, Patrick Francis A.B. 1935, A.M. 1940, Catholic University	D.C.	Primm, Dorothy Phillis	D.C.
Powers, Dawn Lavonne	D.C.	Prince, Frances O.	D.C.
Powers, Gertrude Loretta	Iowa	Principe, Mary Enrico	Ill.
Powers, Gordon Edward A.B. 1934, Massachusetts Institute of Technology	Va.	Prine, Darlyene Diana	Va.
Powers, Julia McCure A.B. 1942, University of North Carolina		Printz, June Ware	Va.
Powers, Robert William B.S. 1942, University of North Carolina	Pa.	Prisacknick, Florence Jeanette	Mass.
Powers, William Joseph	D.C.	Prishua, Nina	N.J.
Pownell, Vera Lee	D.C.	Pritand, Meyer B.S. in Eng. 1943, University of Michigan	Ky.
Prater, Jerome	D.C.	Pritchard, Dorothy May	Conn.
Prater, Betty Florence	N.Y.	Pritchard, Edgar Anthony	D.C.
Prather, Alice Carleen	D.C.	Pritchard, Margaret Eleanor	D.C.
Prather, Elbridge Crawford	Okl.	Pritchett, Earl Wallis	D.C.
Pratt, Margorie Currier	Va.	Privette, Heyward Smith	Md.
Pratt, Arthur J.	Mass.	Procter, John William, Jr.	D.C.
Pratt, Ethel Josephine A.B. 1925, Beloit College	Mich.	Profeta, Philip Peter	N.Y.
Pratt, William Charles	Wis.	Proschan, Frank B.S. 1941, College of the City of New York	
Preceda, Norman B.S. 1941, Michigan State College	N.Y.	Prosen, Edward Joseph B.S. 1938, A.M. 1941, The George Washington University	Minn.
Preiser, Warren G. A.B. 1943, The George Washington University	D.C.	Prost, Sylvia Genevieve	Va.
		Prouty, Norma Randall	Mass.
		Pruitt, Amy May A.B. 1937, University of California at Los Angeles	Calif.
		Przaki, John Nicholas	D.C.

Pugh, Douglas Haig B.S. 1938, United States Naval Academy	Ariz.	Raff, Samuel Joseph B.M.E. 1943, College of the City of New York	N.Y.
Pugh, Marjorie Leigh	Ohio	Rafferty, Margaret Mary	D.C.
Pughe, James Moffat	Colo.	Raiken, Sally J.	Conn.
Pughese, Betty J.	Pa.	Ragdale, Wynette A.	Ga.
Pulliam, Franklin Preston	D.C.	Rahl, James Andrew B.S. 1939, J.D. 1942, Northwestern University	Ohio
Pultz, Douglas	D.C.	Rahl, Jean Mayberry A.B. 1940, Wooster College	D.C.
Purcell, Patricia Eileen	D.C.	Raney, Marianna Rucker B.S. in Ed. 1937, Russell Sage Teachers College	D.C.
Purcell, Mary Magdalene	D.C.	Raney, Percy Lee, Jr.	D.C.
Purdue, Howell A.B. 1924, Vanderbilt University J.D. 1926, University of Southern California	Calif.	Raker, Jerome H.	D.C.
Purvis, Lloyd Lee	Fla.	Rakha, Yousef Bahgat	Pa.
Puschak, Theodore Busel	D.C.	Rakusin, John Moses	D.C.
Pustilnik, William	N.Y.	Raley, Joyce Clare	D.C.
Putnam, Robert Charles	Va.	Ramirez, Ana Rita	D.C.
Putney, George Foster	D.C.	Ramirez, Julio Rafael	Va.
Pyles, Harry Ruthvin	D.C.	Ramirez, Sarah Ellen	Va.
Pynn, George Washington	N.Y.	Ramos, Ramon	Va.
Q			
Quade, Willie Vale Oldham	Va.	Ramsay, Jeanne Breckinridge	Va.
Qualls, Guy Logan	Ohio	Ramsay, William Galt	D.C.
B.S. 1941, University of Georgia		Ramsdell, Marion Louise	Va.
Queenin, Raymond Joseph, Jr.	D.C.	Ramsdell, Ruth Ann	R.I.
Queenberry, Elizabeth Geraldine	D.C.	Ramsey, Elizabeth Covell	Md.
B.S. 1940, Radford Teachers College		Ramsey, Lessel Leslie B.Ed. 1935, State Teachers College, EauClaire, Wis.	Mass.
Quible, Rennie Gulick	D.C.	Ramsey, Rosalie Evelyn	D.C.
Quick, Elsie McQueen	N.C.	A.B. 1940, Millsaps College	Ohio
Quick, Walter Jacob, Jr.	Md.	Ramsey, Thelma Margaret	
B.S. 1924, Pennsylvania State College		Ramsey, Walter Andrew A.B. 1937, A.M. 1939, University of Cincinnati	Pa.
Quigg, Barbara Lou	Va.	Rand, Bert A.B. 1938, University of Illinois	Wash.
Quigg, Eloise Jane	Va.	Rand, Myra Francisco A.B. 1937, State College of Washington	D.C.
Quigley, Hugh John	D.C.	Randall, Berneita K.	Md.
Quigley, Lucy VanEtten	Mich.	Randall, Jean Brodell	Okla.
Quigley, Margaret Elizabeth	Pa.	Randel, Hugh Wayne B.S. 1942, University of Oklahoma	Va.
Quigley, Thomas A. A.B. 1942, University of Mississippi	Miss.	Randlett, Kenneth F.	D.C.
Quill, Eleanor Ann	Md.	Randolph, Harrison Tell	Tenn.
Quill, John James	Mass.	Range, Blanche Vandalia B.S. 1933, East Tennessee State Teachers College	Md.
Quimby, Grace A.B. 1929, Bryn Mawr College B.S. 1931, Drexel Institute of Technology	Pa.	Rankin, Joseph Eugene B.S. 1942, Catholic University of America	Idaho
Quinn, Dorothy Y. A.B. 1939, The George Washington University	D.C.	Rankin, Joseph Winfield A.B. 1940, The George Washington University	Ill.
Quinn, Harold Joseph	D.C.	Ranney, Richard Roosevelt A.B. 1940, University of Chicago	D.C.
Qumtrell, John Erskine, Jr. A.B. 1943, The George Washington University	D.C.	Raphelson, Alfred Charles	Ill.
Quirici, Mary Camille	Conn.	Rappaport, Bernard Raymond	D.C.
Quistgaard, Ellen B.	Denmark	Rappaport, Nathan David	D.C.
R			
Raab, Marjorie Elizabeth	D.C.	Rapuzzi, Martha Lucile	Okla.
Rabensau, Anna Mae	Ill.	Rasbury, James Thomas A.B. 1936, Michigan State Normal College	D.C.
Racoonin, Stanley Arnold	D.C.	Rasile, Emelia Mary	D.C.
Radelhoff, Emmet B.S. in Ed. 1940, Southern Illinois Normal Institute	D.C.	Raskin, Kenneth A.B. 1936, University of Minnesota	Utah
Radford, Naomi Millicent	D.C.	Rasmussen, Rulon E.	D.C.
Radhe, Sven Gunnar	D.C.	Rasooti, Jay Martin A.B. 1945, American University	
Radin, Alex	Va.		
Radlo, Gilbert A.B. 1934, A.M. 1936, Harvard University	D.C.		
Rado, Alan Rudolph J.U.D. 1928, University of Bratislava	Mass.		

Rast, Carolyn Frankum	D.C.	Redd, Bernice Isabelle	Va.
B.S. in H.E. 1940, A.M. 1947 The George Washington University		Redd, Linnae Belle	Va.
Ratsep, Helen	Conn.	Reddie, Victor Leon	Md.
Rates, Anne	Pa.	Redfield, Adele Price	D.C.
Rothman, I. A. Thomas	N.Y.	A.B. 1941, The George Washington University	
Rothman, Donald James	D.C.	Redman, Robert Weston	D.C.
Rosen, Max	D.C.	Redman, Virginia Beckner	D.C.
Rutter, Scott Thomas	Ill.	Redwine, Bennie Pruitt	Tex.
A.B. 1942, University of New Mexico		Reed, Alfred Engvald	Va.
Rauha, Gilbert	D.C.	Reed, Betty Lou	Ind.
A.B. 1944 A.M. 1936, Harvard University		Reed, Helen Johnette	D.C.
Raum, Phyllis Miriam	D.C.	B.S. 1940, Northwest Missouri State Teachers College	
Rausch, Mildred Jean	Minn.	Reed, Joyce Leslie	Tex.
B.S. 1947, State Teachers College		A.B. 1940, College of Mines and Metallurgy, El Paso, Tex.	
Rauschenfels, Dorothy Louise	Minn.	Reed, Mildred Howard	Md.
B.S. 1940, College of St. Scholastica		Reed, Sidney George, Jr.	Ia.
Rauzins, Mary Louise	D.C.	B.S. 1941, Loyola University	
Raver, Barbara Elsie	Pa.	M.S. 1942, University of Notre Dame	
Raven, Louis Herbert	N.Y.	Reed, Stella Swingle	D.C.
B.S.S. 1931, M.S. 1938, College of the City of New York		Reed, Vaughn Dewitt	Ohio
Rawick, Elsie	D.C.	J.D. 1941, The George Washington University	
A.B. 1945, Hunter College		Reed, Wilber Jackson	D.C.
Rawlings, Grace Elizabeth	Va.	A.B. 1940, University of Michigan	
A.B. 1943, Radcliffe College		Rees, Catherine Pearl	Ind.
Rawlings, John Starchman	D.C.	Rees, Elias Davis	Va.
A.B. 1941, Randolph-Macon College		Rees, William Carl	D.C.
Rawlings, Joseph Howard	Ill.	Reese, Bathonhue Warr	Pa.
Rawlings, Maurice Scavgs	Md.	A.B. 1942, American University	
A.B. 1944, The George Washington University		Ree, H. Claire	Md.
Rawlston, Marceline Mae	Va.	Reeve, Russell E.	Utah
Rawlston, Wilma Gladys	Ala.	Reeves, Charles George	Va.
Ray, Charles Wesley	D.C.	Reeves, George Arthur	Ark.
A.B. 1942, Randolph-Macon College		Regan, Donald Thomas	D.C.
Ray, Donald Page	Colo.	A.B. 1940, Harvard University	
A.B. 1941, University of Colorado		Regan, Lawrence Francis	Mass.
Ray, Minnie L.	Va.	B.S. 1939, Boston University	
Ray, Tom S.	Va.	Reagin, Frank	Pa.
B.S. 1936, Boston University		Reiser, Eunice Mae	Kans.
Rayburn, Lewis Carl	Ind.	Reis, Alfred	D.C.
Rea, Anna Carlson	Neb.	Reis, Jerome Martin	Md.
Rea, Arson George	Va.	A.B. 1945, Brooklyn College	
B.S. in Eng. 1937, B.S. in Chem. Eng. 1938, M.S. in Chem. Eng. 1939, University of Michigan		Reich, Joseph S.	Va.
Rea, Barbara Jane	Mass.	Reich, Charlotte	D.C.
Rea, Edward Adwell	Conn.	Reichers, Mary	Va.
A.B. 1936, Yale University		Reichow, Estelle Vernon	D.C.
Rea, John	N.Y.	Reichow, Terrence Joseph	Pa.
B.S. 1945, College of William and Mary	D.C.	Reid, David Edward	Va.
Rea, Jeannette Mary		Reid, Judith Anne	New Zealand
Ray, Edward L.	D.C.	Reid, Patricia Elnora	Okla.
A.B. 1942, University of California	Calif.	Reid, Spencer Beal	Calif.
Rea, Kathryn Mervyn		Reid, Stella M.	N.C.
Rea, Martha Moulton	Md.	Reidy, Elizabeth Ann	D.C.
Rea, Dorothy Lucille	Md.	Reidman, Alfred	N.J.
Rea, Jeanne Eleanor	D.C.	A.B. 1940, A.M. 1941, University of Michigan	
Rea, Mary L. Cascio	Va.	Reidman, Lucille	D.C.
A.B. 1933, Tulane University of Louisiana		A.B. 1941, Brooklyn College	Pa.
Rea, Katherine Virginia	D.C.	Reiswider, Charles Frank	
Rea, Donald F.	D.C.	A.B. 1944, The George Washington University	
Rea, Elizabeth	Ark.	Reilly, Donald William	D.C.
Rea, Roger K.	D.C.	Reily, Billy Ray	D.C.
Rea, William	D.C.	Reily, Rosemary	D.C.
Rea, Alice Catherine	D.C.	Reinacker, Howard Keith	D.C.
Rea, Richard Ross	Md.	Reinertsen, John Allan	D.C.
A.B. 1941, The George Washington University	Pa.	Reinertsen, William	N.J.
		A.B. 1933, Rutgers University	
		A.M. 1934, Columbia University	
		Reinhardt, Ruth Anna	N.J.
		Reinsehl, Robert Ulrich	Md.



Reiser, Brownlee Martin	D.C.	Rice, Millard Berger, Jr.	Va.
Reiss, Barbara Ann	Md.	Rice, R. P. George	D.C.
Reister, Frank Albert	D.C.	Rich, Donald Jenkins	Va.
Reiter, Robert Henry	Ohio	Rich, Donald Vincent	Md.
B.S. 1942, Ohio State University		Rich, Edith Mynette	D.C.
Reiter, Ruth Marise	Pa.	A.B. 1942, Trinity College	
Reiver, Miriam	D.C.	M.S. 1946, St. Louis University	D.C.
Reios, Bessie Elizabeth	D.C.	Rich, Edwin H.	D.C.
Renand, Raymond Norbert	Maine	Rich, Harry L.	
A.B. 1939, Bates College		A.B. 1939, Brooklyn College	Va.
M.S. 1941, Catholic University of America		Rich, Helen Gertrude	D.C.
Rendler, Norbert Joseph	Wash.	Rich, Irene Silverman	
Reufus, Robert Ames	Va.	A.B. 1940, Wilson Teachers College	Maine
Reun, Elmira V.	D.C.	Richards, Lorraine Mary	D.C.
B.S. 1937, Madison College		Richards, Adela Alice	D.C.
Renteria, Cleo Ramirez	Tex.	Richards, Cecil Ludwig	D.C.
Repko, Edward Bernard	N.J.	Richards, Donald Alford	
Repper, Genevieve Elizabeth	Mo.	A.B. 1940, Washburn Municipal University of Topeka	Va.
Resneck, Daniel Herman	Ind.	Richards, Howard Earl	
A.B. 1937, De Pauw University		A.B. 1936, Fresno State College	D.C.
Resnick, Esther	D.C.	Richards, James Francis	Pa.
Resnick, Leroy David	Ill.	Richards, James Vine	Md.
Rewes, William	N.J.	Richards, John Edward	Calif.
A.B. 1931, Rutgers University		Richards, Margaret Jane	S.C.
Reynolds, Dana Drummond	Md.	Richards, Suzanne Virginia	Va.
A.B. 1930, West Virginia University		Richardson, Dorothy Marie	D.C.
Reynolds, Dorothy Yarbrough	S.C.	Richardson, Elinor Lavina	
Reynolds, Elizabeth Haynes	Va.	A.B. 1937, Dubuque University	D.C.
Reynolds, Eugenia Beam	Va.	Richardson, George William	
Reynolds, Gary Stewart	N.Y.	B.S. 1941, The George Washington University	Tex.
Reynolds, Helen Burrows	Mass.	Richardson, Helen L.	Mass.
Reynolds, Jay Frederick	Va.	Richardson, Mabel Campbell	
Reynolds, Lewis McDowell	D.C.	A.B. 1942, Bryn Mawr College	Mass.
Reynolds, Mary Gertrude	D.C.	Richardson, Martha	
A.B. 1941, Wellesley College		B.S.C. 1945, University of Mississippi	D.C.
Reynolds, Robert Theodore	Va.	Richardson, Phyllis Virginia	D.C.
Reynolds, Russell Calvin	Va.	Richardson, Randall James	D.C.
Reynolds, Victor Thomas	Ill.	Richardson, Robert Hard	Ala.
Reynolds, Waneta	Va.	Richardson, Samuel Churchwell	Fla.
A.B. 1941, University of Hawaii		Richardson, Louis Delbert	N.Y.
Reynolds, William Neville	Nebr.	Richardson, Ronald	N.Y.
Rezanka, Frank Joseph	D.C.	Richardson, Theresa A.	
Rhett, Marjory Maury	Pa.	A.B. 1942, Hunter College	Va.
Rhine, Mary Elizabeth	Va.	A.M. 1941, Columbia University	D.C.
Rhoads, Lee M. Henry		Richmond, Lionel	
A.B. 1942, The George Washington University		Richmond, Susan U.	
Rhoda, Gwendolyn Joyce	Calif.	A.B. 1942, Randolph Macon Women's College	Fla.
Rhodes, Eric Foster	D.C.	Richerson, Fred Wilson	Va.
Rhodes, James Robinson	D.C.	Ricks, Evelyn Mae	Tex.
Rhodes, Jane Ann	Pa.	Riley, Isabelle Mary	D.C.
B.S. 1941, University of Pittsburgh		Ridell, Mera Mann	Md.
Rhodes, Leah Rapoport	Md.	Riddle, Augustine Seales	D.C.
A.B. 1941, Queens College		Riddle, Sue	D.C.
A.M. 1944, University of Wisconsin		Ridgeway, Jane Joyce	D.C.
Rhodes, Marjorie Tree	D.C.	Ridgeway, Jesse Edward	D.C.
Rhodes, Teyce Marie	N.C.	Ridgeway, Thelma Jeannette	Va.
Rhine, Brice Wilson	D.C.	Ridings, Betty May	D.C.
Rice, Arthur H. Hopkins	D.C.	Ried, Miller Charles R.	Md.
A.B. 1937, Harvard University		Reman, Carl Joseph	Va.
Rice, Carolyn Louise	Va.	Riffolt, Astrid Marganta	
Rice, Donald William	D.C.	B.S. 1941, College of William and Mary	D.C.
Rice, Eunice Fay	D.C.	Rifkind, Doris May	
Rice, Gertrude Bruce	Va.	B.S. 1944, Wilson Teachers College	Wis.
Rice, James Emmur	D.C.	Rigacci, Endie Marie	Idaho
A.B. 1940, The George Washington University		Rigby, Penelope Anne	D.C.
Rice, James Wilson	D.C.	Ringle, Dorothy	D.C.
B.S. 1927, University of Nevada		Ringles, Richard Francis	Fla.
M.S. 1930, Massachusetts Institute of Technology		Riggs, Annette M.	N.J.
Rice, Joan Huntington	Md.	Riggs, Bradner Charles	

Riggs, Laura Mae	Md.	Roberts, Alida Livingston	Md.
Rightor, June Drummond	N.J.	Roberts, Austin Leonard, Jr.	N.J.
A.B. 1944, University of Maryland		A.B. 1941, College of William and Mary	
Riley, Adah Frances	Tenn.	Roberts, David Bartlett	D.C.
Riley, Frank Hill	Va.	Roberts, Donna Louise	Va.
Riley, Georgia H.	Mass.	Roberts, Dorothy	D.C.
B.S. 1936, University of Southern California		Roberts, Janet Fairley	D.C.
Riley, Jeremiah Thomas	Mont.	Roberts, Jennings Nicholas	D.C.
Riley, Robert Edwin	Kans.	A.B. 1939, Morris Harvey College	
Riley, Timbes	Tenn.	LL.B. 1943, LL.M. 1945, Georgetown University	
Riley, Vernon Todd	Md.	Roberts, John Summerfield, Jr.	D.C.
Rimondi, Kenneth	D.C.	B.S. in Chem. 1941, University of Virginia	
Rindfleisch, Anna Maria	Va.	Roberts, Kenneth Stokes	N.J.
Riner, William Carter	Ga.	B.S. 1942, Haverford College	D.C.
Riney, Mary Margaret	Md.	Roberts, Marcia	D.C.
Ringel, Abraham Sumner	D.C.	Roberts, Margaret Frances	D.C.
B.S. 1918, College of the City of New York		Roberts, Mary Elizabeth	Va.
Ringer, Barbara Alice	D.C.	Roberts, Mary Marcitia	Ark.
A.B. 1945, The George Washington University		Roberts, Natalie	D.C.
Ringer, Max	D.C.	Roberts, Pauline	Ind.
Ringwalt, Anne Una	Va.	Roberts, Rosalie DuVal	Md.
Rischpater, Madolyn	D.C.	Roberts, Sarah Elizabeth	Calif.
A.B. 1939, Capital University		A.B. 1931, University of California	
Rison, John L.	Va.	B.S. in L.S. 1932, University of Washington	
Rising, Isabelle Sinclair	D.C.	A.M. 1910, The George Washington University	
Ritchey, Lloyd Butler	Va.	Roberts, William Wesley, Jr.	Ark.
B.S. M.E. 1936, Purdue University		LL.B. 1920, Washington College of Law	
M.S. 1941, University of Illinois		Robertson, Alvin Franklin	D.C.
Ritchey, Helen Louise	Md.	Robertson, Bedford Shelton	D.C.
Ritchie, John Milton	D.C.	Robertson, John A.	Calif.
B.S. 1931, Temple University		Robertson, Mildred Jones	D.C.
Ritchie, Marie	Va.	A.B. 1914, Earlham College	D.C.
Ritchie, Ruth Sara	Va.	Robertson, Thomas Ramsay	N.Y.
Ritchie, Thomas Boyd	Md.	Robeson, Shurlee Damon	D.C.
Ritter, Julius Charles	Ill.	Robey, Richard Edward	Md.
Ritta, Roy Elliot II	D.C.	Robichaux, Dorothy Cecilia	D.C.
Ritzzenberg, Albert	D.C.	Robin, Eugene Debs	Mich.
A.B. 1942, University of Maryland		Robin, Ruth	P.C.
Ritzzenberg, Madeleine Snowden	D.C.	Robins, James Edward	D.C.
B.S.P.E. 1940, The Women's College of the University of North Carolina		Robins, Nettie	
Rivers, Sara Blanche	D.C.	A.B. 1917, Brooklyn College	Va.
Rivers, Louis H. Jr.	D.C.	Robins, Ronda Rose	D.C.
A.B. B.C.L. 1943, The College of William and Mary		Robinson, Carl Leroy	Ark.
Rixey, Thomas Dyer	D.C.	Robinson, Catherine Ann	Ark.
Rixey, George Edward	Va.	Robinson, Edwin Joseph	Pa.
Rixey, Spencer Benjamin	Va.	Robinson, Elizabeth Jean	Ga.
Rizi, Robert Paride	Pa.	Robinson, Frances Beatrice	
Roa, Arthur Lopez	D.C.	A.B. 1942, Mount Berry College	Pa.
H.S. 1945, Instituto Pedagogico de Yaconet de Managua		Robinson, Hugh Marston	
Roach, William Frederick	D.C.	B.S. 1928, United States Naval Academy	
Roach, William Henry	Md.	Robinson, Josephine Gould	D.C.
Roark, Mary Kathleen	D.C.	Robinson, Norma Jane	D.C.
Robert, Floyd John	Neb.	Robinson, Marjorie Joycelyn	Minn.
Robb, Eleanor Ann	D.C.	Robinson, Martha H.	Ill.
Robbins, Carol Clement	Wash.	A.B. 1924, Wellesley College	
B.S. 1940, Washington State College		Robinson, Mary Ellen	Va.
Robbins, Chandler Seymour	Mass.	Robinson, Norman Clark	N.Y.
A.B. 1940, Harvard University		L.E. 1940, Cornell University	
Robbins, Edward Morris	D.C.	Robinson, Peter Arthur Tom	Maine
Robbins, Jesse	N.Y.	Robinson, Ruth Adell	Idaho
Roberson, Elbert Belmont	D.C.	Robinson, Walter Scott	D.C.
Roberson, Robert Errol	D.C.	Robinson, William Blount Rodman	N.C.
B.S. 1943, University of Chicago		Robinson, Cleveland Samuel	Ill.
Roberson, Vera May	D.C.	Robitscher, James Bondi, Jr.	D.C.
Roberts, Adeline Furness	D.C.	A.B. 1942, Brown University	
A.B. 1935, Bryn Mawr College			
Roberts, Alan Authier	Mass.		
B.S. 1941, Harvard University			

Roblee, Dana Bush	D.C.	Rome, Janice Lorraine	D.C.
B.S. 1927, St. Bonaventure's College		Rome, Norma Ellen	D.C.
M.S. 1932, New York State College		Romer, Abraham Russell	N.Y.
for Teachers		B.S. 1940, College of the City of	
Robson, Elouclene Kinsey	D.C.	New York	
Ruch, Elizabeth Bell	Tex.	Romero, Theodore Robert	D.C.
Rushford, Mary Louise	D.C.	Rumett, Joseph Henry	Pa.
Rushmes, Nathan Henry	D.C.	Romeu, Ragucl Otilia	Calif.
Rushon, Ann Edmire	D.C.	Romine, John Thomas	Md.
Rock, Doris Lorraine	D.C.	Rommel, Margaret Rachel	Iowa
Rockwell, Dean Milton	Va.	A.B. 1930, Iowa Wesleyan College	
B.S., M.E. 1943, University of		M.S. 1930, University of Iowa	D.C.
Michigan		Rommel, Wilfred H.	
Rockwell, Franklin Abraham	D.C.	B.S. 1937, North Dakota State	
A.B. 1941, Shepherd College		College	
Rockwood, William Peck	Oreg.	Romney, Alton	Utah
Roddisfer, Clarence Edward	Va.	Ronin, Hax	D.C.
Rodenbl, Donald Lee	D.C.	Ronon, Rita Mary	D.C.
Rodes, Elizabeth Jane	D.C.	Rook, Doris Mae	Md.
Rodes, Milton M.	D.C.	Rook, Rex Louis	Okla.
B.B.A. 1941, College of the City of		Rooney, Margaret Cecilia	Canada
New York		Roos, Maurits	D.C.
Rodgers, Edward O.	Ariz.	Roos, Robert Vincent	D.C.
B.S. 1944, University of Arizona		Roosevelt, Diana	Mich.
Rodgers, Oscar Kelly	D.C.	Root, Blake Smith	Ill.
Rodgers, Philip Ray	D.C.	B.S. 1927, Monmouth College	
B.S. 1930, M.S. 1940, University		A.M. 1941, University of Illinois	Fla.
of Utah		Root, Dorothy Lillian	D.C.
Rodgers, Sanford Leland	D.C.	Roper, Richard Samule	Tenn.
Rodgers, Shirley Louise	D.C.	Roper, Virginia Lucille	D.C.
Rodgers, Walter Manly, Jr.	S.C.	Rosakrana, Ruth Isabelle	D.C.
B.S. 1937, Clemson Agricultural		Rosch, Stanley	
College		B.B.A. 1938, College of the City of	
Rodriguez, Aida Elba	P.R.	New York	
Rodriguez, Orlando	D.C.	Roscoe, Mary	W.Va.
Rody, Robert Stanley	Md.	Rose, Herbert E.	Md.
Roe, Chester Thomas, Jr.	Mich.	Rose, John Kerr	Ill.
Roe, James Francis	N.Y.	A.B. 1928, A.M. 1931, Indiana	
Roesner, Esther Margaret	D.C.	University	
Rogers, Charles Edgar	D.C.	Ph.D. 1936, University of Chicago	N.J.
A.B. 1937, A.M. 1941, Yale Uni-		Rose, Natalie Mariorie	Conn.
versity		Rosen, Ellsworth Resben	
Rogers, Doris Draper	D.C.	B.F. 1942, Yale University	D.C.
A.B. 1935, Vassar College		Rosen, Jack Leopold	D.C.
Rogers, Elizabeth Carson	N.J.	Rosenberg, Anna	D.C.
Rogers, Evelyn Rose	D.C.	Rosenburg, Phyllis Ann	D.C.
Rogers, Gloria Thomas	D.C.	Rosenberry, William Ward	D.C.
Rogers, Helen Elizabeth	D.C.	Rosenblatt, Shirley Natalie	D.C.
Rogers, Jane Cochran	Va.	Rosenblatt, William Allen	D.C.
A.B. 1941, American University		Rosenbloom, Philip	D.C.
Rogers, Joanne Frances	D.C.	Rosenbloom, Eleanor Bertha	D.C.
Rowers, John Leuzie, Jr.	D.C.	Rosenfeld, Arthur Heinz	D.C.
Rowers, Lawrence Beryle	D.C.	Rosenfeld, Max	
Rowers, Margaret Joan	Va.	B.S. 1939, Wilson Teachers College	N.Y.
Rowers, Marion Marguerite	Md.	Rosenfeld, Hilliard Abraham	
Rowers, Rachel Cauldwell	D.C.	B.S.S. 1944, College of the City of	
Roy, Nathaniel Hyman	Va.	New York	
A.B. 1934, A.M. 1935, New York		Rosenthal, Harvey Ivan	D.C.
University		Rosenthal, Cavola	Va.
Rozouin, Anna	N.Y.	Rosenthal, Melvin	D.C.
A.B. 1937, Hunter College		Rosoff, Frieda	N.Y.
Rohman, Kittisene	Va.	Ross, Arline Bette	
Rohn, Robert	Calif.	B.S. in Ed. 1949, University of	
Rohrbach, Gilson Henry	Wash.	Michigan	Va.
B.S. 1942, University of Washington		Ross, C. Hildegard	
Rohrbaugh, Lilian H.	D.C.	B.S. 1933, Farmville State Teachers	
Rohrbaugh, Phyllis Josephine	Pa.	College, Virginia	Pa.
Roig, Evelyn	P.R.	Ross, Daniel Michael	S.C.
Rollins, Marjorie Edla	Mass.	Ross, Dorothy Elizabeth	
Rollston, Elizabeth	D.C.	A.B. 1944, Newberry College	Iowa
B.S. 1926, Madison College		Ross, Elizabeth May	Md.
Romano, Olive	D.C.	Rosa, Harry Paul	D.C.
Romanow, Louis Jay	D.C.	Ross, Helen Elizabeth	



# Students Registered

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Ross, John H.	D.C.	Ruffner, Ralph Windsor	Md.
Ross, Mary Elizabeth	Md.	A.B. 1935, University of Maryland	
Ross, Ruth	N.J.	A.M. 1940, The George Washington	
Ross, Samuel	D.C.	University	D.C.
A.B. 1921, University of Pittsburgh		Ruiz, Elizabeth	N.Y.
Ross, Sondra Rene	N.Y.	Ruiz, Madelene Grace	Ohio
Rossbacker, Agnes H.	N.J.	Ruke, E. Jon	Va.
A.B. 1943, The George Washington		Rumbough, William Samuel	
University		B.S. in E.E. 1927, The George	
Rosser, Virginia May	D.C.	Washington University	N.C.
Rote, Janet Louise	Pa.	Rumsey, Jacqueline Wallace	N.Y.
Roth, Carl Edwin	D.C.	Rundle, Maude Pearl	Va.
B.S.R.E. 1942, Indiana Technical		Runkle, George William, Jr.	Ga.
College		Rupert, Norma Morgan	D.C.
Rothbard, Eleanor	N.Y.	Rupertus, Edith Louise	D.C.
Ruth, Bertha Margarethe	D.C.	Ruppert, Rose Mary	D.C.
A.B. 1934, A.M. 1935, B.S. in L.S.		A.B. 1941, Dunbarton College of	
1940, Syracuse University		Holy Cross	Wash.
Rothenberg, Donald	D.C.	Rush, Irene Annie	Ill.
Rothberg, Jean	D.C.	A.B. 1945, Stanford University	D.C.
Rothberg, Jerome	N.Y.	Rush, Lariene Ruth	D.C.
A.B. 1945, Columbia College		Rushbrook, Margaret Lucile	Va.
Rothgeb, Edwina Yvette	D.C.	Rushton, Alex Bertan	Va.
Rothgeb, Georgia Winfield	Md.	Russell, Charles Bernard	D.C.
Rottenberg, Jacob Bear	R.I.	Russell, Charles Britton	D.C.
A.B. 1942, The George Washington		Russell, Fielding Dillard	
University		A.B. 1929, A.M. 1930, University	
Rotz, Carl Frederick	D.C.	of Georgia	D.C.
Rounding, James Richmond, Jr.	D.C.	Russell, Helen Louise	Mass.
Rounds, Mary Anne	Va.	Russell, James W.	N.D.
Rountree, Betty Jane	D.C.	Russell, Myrtle Ellen	
Rousar, Edward Everett	D.C.	A.B. 1944, The George Washington	
Routh, Nita Leota	Mo.	University	D.C.
Roxner, Philip	D.C.	Russell, Stuart Hamilton	
R. wan, Cynthia Lee	Va.	A.B. 1941, The George Washington	
Rowan, Thomas Daniel	D.C.	University	D.C.
Rowcliffe, Joan Leutze	D.C.	Russo, John A.	Va.
Rowe, Arthur Wayne	Ind.	Rust, Jane	Calif.
Rowe, Andrew Hearl	D.C.	Rutherford, John Wiley, Jr.	D.C.
Rowe, Betty Athlutan	D.C.	Rutherford, Brabazon Henry	Va.
Rowe, Willis Case	D.C.	Rutherford, Palmer St. Clair	
Rowell, Leroy Arthur	Maine	B.S. 1926, Roanoke College	D.C.
Rowell, Robert Glenn	Va.	Rutledge, Jeannette Catherine	Ill.
Rowley, Elizabeth Loughman	D.C.	Rutledge, John William	
Rowley, Rachael Beatrice	D.C.	B.S. 1944, Northwestern University	D.C.
Roy, Leonard Cornell, Jr.	D.C.	Ryall, Tull	Mass.
Rozanks, Frank Joseph	N.I.	Ryan, Deirdre Mead	Nebr.
Rubenstein, Allan Norbert	D.C.	Ryan, Ellen G.	D.C.
Rubenstein, Eleanor Rudy	N.Y.	Ryan, Helen C.	N.Y.
Rubenstein, Irving	N.Y.	Ryan, Joan Lorey	Va.
A.B. A.M. 1941, Columbia University		Ryan, John Robert	Md.
Rubin, Joel	D.C.	Ryan, Joseph Neil	Va.
B.S. 1941, College of the City of		Ryan, Katherine Ann	D.C.
New York		Ryan, Mary	Md.
Rubin, Seldon Lawrence	N.C.	Ryan, Mary Dolores	D.C.
Rubin, Sherwin	Pa.	Ryan, Rose Margaret	Mass.
Rubin, Shirley Marilyn	D.C.	Ryan, William Edward	
Ruby, Robert Arthur	Va.	B.S. 1941, University of Michigan	D.C.
Ruch, Delbert DeVillo	Calif.	Ryce, Eleanor Krive	D.C.
Ruckel, Otto	N.I.	Ryckoff, Irvine Milton	
Rucker, Frances Norton	D.C.	A.B. 1934, Syracuse University	Va.
Rucker, George Everett, Jr.	D.C.	Ryder, Elizabeth Semans	Va.
Ruddy, Alice Marie	D.C.	Ryder, Oliver Wilson	Ind.
B.S. 1940, Marywood College		Ramerson, Wendell Price	
Ruddy, Anne Clare	D.C.	A.B. 1926, DePauw University	
B.S. in H.E. 1916, Marywood		LL.B. 1920, Indiana University	Va.
College		Rynex, Charles Drury, Jr.	
Rudnick, Julia J.	Ohio		
Rudolph, Flora Lee	Ky.		
Ruffin, Joseph Vincent	D.C.		
B.C.E. 1943, The George Washington			
University			
Ruffner, Clarence David	D.C.		

S

Sackett, Gloria Jean	Md.	Sara, Joyce Ann	Va.
Sackett, William T., Jr.	Md.	Sardo, Joseph Earhart III	D.C.
B.E. 1941, Johns Hopkins University		Sarcas, Beatrice Delia	Md.
Sacra, Wilbur Wilson, Jr.	Ky.	Sargeant, Helene Kajanira	Mass.
A.B. 1934, Murray State Teachers College		A.B. 1940, Wellesley College	
Saegmuller, Barbara Ann	Va.	Sargent, Charles Robert	Calif.
Safir, Rita	N.Y.	A.B. 1941, Columbia University	
Safko, Gloria Jeanette	D.C.	Sargent, James Allen	Calif.
Sager, John Harmer	D.C.	Sarmiento, Ernesto Eduardo	D.C.
St. Arnold, Dorothy Delaine	Minn.	Sarner, Ellen Virginia	
St. Clair, Mary Dorothy	Md.	B.S. in Ed. 1940, University of Pennsylvania	Md.
St. John, Nicholas E.	Conn.	Sarratt, Claude Henry	
Ph.B. 1931, Yale University		A.B. 1941, The George Washington University	D.C.
J.D. 1935, New York University		Sartorius, Lester Clayton	
Sakellarios, Helle Anne	D.C.	B.B.A. 1941, University of Minnesota	Iowa
Sakes, Helen Cleo	D.C.	Satterlee, Gloria	Tenn.
Saks, Margery Ney	D.C.	Saunders, Clifton Reid	D.C.
Salb, Thomas Walter	D.C.	Saunders, Donald H.	D.C.
Sale, Robert Dennis	D.C.	Saunders, Helen Faye Smith	N.C.
Salo, Aino Miriam	Md.	Saunders, Jean Holden	Va.
Salzeberg, Juha Lieselohé	D.C.	Saunders, Marion Louise	
Salzman, Edith	D.C.	A.B. 1944, Sweet Briar College	Pa.
Salzman, Max Herbert	N.Y.	Sause, Maude Teresa	D.C.
Samaha, Leslie Halim	Va.	Sauter, Mary Eva	N.Y.
Samber, Julia Ann	W.Va.	Savage, Charles Carey	N.H.
Sammon, Sara LeVonne	Iowa	Savage, Elizabeth M.	D.C.
Sanborn, Arlene Hurley	R.I.	Savary, George Alexander	S.C.
Sanborn, Joseph Gilpin Young	Utah	Saverance, Carolyn McNair	
Sanborn, Marjorie Jane	D.C.	A.B. 1940, Winthrop College	Mich.
Sanchez, Luis F.	P.R.	Sawkins, Penelope H.	
B.S. 1943, University of Puerto Rico		A.B. 1940, Marquette College	Md.
Sand, Mary Elizabeth	Md.	Sawyer, Everett Walter	Ill.
B.S. 1940, University of Wisconsin		Sawyer, Calvin Parker	
Sanda, Joseph John	Va.	A.B. 1942, A.M. 1942, University of Chicago	D.C.
Sandberg, Carl Ivar	Md.	Saxelby, Charles Mapplebeck	D.C.
Sandeler, John Glynn	D.C.	Sayers, Marvin Jackson	N.Y.
Sander, Dora	D.C.	Sayers, William Walter	N.Y.
A.B. 1942, Radcliffe College	Ind.	Sharsky, Evelyn	D.C.
Sanders, Doris C.	Va.	Seamanda, Lenny	Ill.
Sanders, George Clay	Ind.	Seamond, Anabel Mary	
Sanders, Lowell Lawrence		A.B. 1941, DuPaul University	Va.
B.S. 1940, Indiana University	Md.	Secriot, Angelo John	N.J.
Sanders, Milton		Scarlan, Alfred Joseph	
B.S. 1941, Massachusetts Institute of Technology	N.J.	A.B. 1941, Columbia University	D.C.
Sanders, Walter Murray	D.C.	Seiwarda, Levy	D.C.
B.S. 1937, Yale University		Seaw, Lester Meacham	Mo.
Sanderson, Robert Bruce	Ohio	Seearce, Thelma I.	Va.
A.B. 1941, University of Akron	Nebr.	Scharf, Raymond Henderson	Md.
Sanderson, Sue Elizabeth	Va.	Schafer, Mary Jane	D.C.
Sandin, Robert Bertil	N.Y.	Schafer, Sara Caroline	D.C.
Sandlund, John Twistem	Colo.	Schafer, Frederick	
Sandor, Martha Jeanne	Va.	B.S. in C.E. 1924, The George Washington University	
Sanda, John Edward	D.C.	L.I.B. 1928, Georgetown University	D.C.
Sandt, Anna Becker	N.Y.	Schafer, Isabel H.	Va.
Sandusky, Bernard M.	Fla.	Schaffert, Justin Clark	D.C.
Sanford, Bettie Brown	Mich.	Schara, Earl Martin	N.Y.
Sanford, Carolyn Valera		Scharoff, Elaine L.	D.C.
A.B. 1944, Alma College	Va.	Schatz, Clarence Frances, Jr.	N.I.
Sanford, Edith Smith		*Schell, Chilton	D.C.
B.S. 1945, Virginia State Teachers College, Farmville	D.C.	Scheetz, Carlton Frank	D.C.
Sanidad, Marvin Claire	D.C.	Scheetz, June Carrington	D.C.
Santell, Magdalene R.	N.Y.	Scheffres, Eugene	D.C.
Santor, Mary Margaret	N.Y.	Scheffres, Jerome	D.C.
Santway, Ruth E.	D.C.	Scheffrin, Richard Edward	D.C.
Sapin, Gertrude Gloria	Calif.		
Sapiro, Allan Leroy			
A.B. 1943, University of California	D.C.		
Saposs, Corinne Tigay			
A.B. 1945, Smith College			

\* Deceased.

Scheiman, Louise		Schoenfeld, James Edward	D.C.
Scheiman, William John	Mich.	Schoenfeld, Lucille D.	D.C.
Schellack, Catherine Allen	Va.	Schoenfeld, Nellie Lou	W. Va.
Schelling, Nancy	Calif.	Schoonmaker, Eleanor Annette	Fla.
A.B. 1945, University of California		Schor, Marjorie Maxine	D.C.
Schenck, Joseph Samuel	N.C.	Schraegle, Anna Elizabeth	Ohio
Schenck, Marilyn Elizabeth	Md.	B.S. 1943, Columbia University	
Schenkel, Betty Mae	D.C.	Schrautle, Arthur William	Va.
Scher, Helene Olivia	D.C.	Schreiber, Helen Henrietta	Va.
Scher, Patricia Pease	D.C.	Schreiber, Hilda	D.C.
Schermulson, Phyl Mann	D.C.	A.B. 1944, The George Washington University	
Scherz, Robert Arthur	Wis.	Schreiber, Ida E.	Ohio
A.B. 1942, University of Wisconsin		B.S. 1942, University of Cincinnati	
Schick, Jean Lightfoot	D.C.	Schreiner, Clarence Henry	Ind.
Schierman, Albert Howard	Wash.	Schreiner, Margaret Abramitis	Va.
A.B. 1940, University of Idaho		Schreiner, Stanley Warner	D.C.
Schiff, Donald William	Mich.	Schreiner, Virginia	Ohio
Schiff, Harriet	Md.	Schreyer, Charles Henry	D.C.
Schiff, Morton N.	N.Y.	Schreyer, Conetta Marie	D.C.
Schiffner, William	N.Y.	Schrier, C. Esther	N.Y.
Schindler, Mary Ann	D.C.	Schroder, John Juergen	D.C.
Schlafel, Jean Annabelle	Okla.	Schroeder, Warren Hughes	Nebr.
Schlaatzeyn, Rachmull	D.C.	A.B. 1942, University of Nebraska	
Schlesinger, Jean	D.C.	Schryer, Betty Jean	D.C.
Schleske, George William	N.J.	Schubert, Coralie Williams	Kans.
Schmid, John George, Jr.	Pa.	A.B. 1918, Baker University	
B.S. 1937, Gettysburg College		Schuetz, Mary Lou Michele	Wis.
Schmid, Lillieanna Hale	Pa.	Schunmann, Haiduna Taylor	D.C.
Schmidt, Bernard Francis	Calif.	Schunmann, William Carter	D.C.
Schmidt, Charles Robert	Va.	A.B. 1940, Pomona College	
Schmidt, Donald Gerry	Mont.	Schulkin, Morris	N.Y.
B.S. 1942, University of Washington		A.B. 1937, Brooklyn College	
Schmidt, Elisabeth Whitman	D.C.	Schulman, Albert Autum	Ill.
Schmidt, Florence Anne	Mo.	A.B. 1940, University of Chicago	
Schmidt, Ruth Eleanor	Nebr.	Schulman, Sidney	D.C.
Schmidt, Thecla Catherine	D.C.	Schulte, Carolyn	Va.
B.S. 1931, Black Hills Teachers College, South Dakota		Schultz, Bennett Victor	Mass.
Schmidt, William Francis	N.Y.	Schultz, Elizabeth Eastmont	D.C.
Schmidt, William Sheppard	D.C.	Schultz, Jerome Manfred	N.Y.
A.B. 1929, Franklin and Marshall College		Schultz, John Hacker	D.C.
A.M. 1936, Columbia University		Schultz, Robert Charles	Md.
Schmittman, Frederick Shade	D.C.	Schultz, Ruth Marie	Minn.
Schmitt, Kathryn Hamilton	Tex.	Schumacher, Louis Edward	Oreg.
Schmitt, Mary Catherine	Kans.	Schumacher, Rosalie Ann	D.C.
A.B. 1928, Marymount College, Kans.		Schumm, Ruth Frances	Tex.
Schmitt, Page Marston	Md.	A.B. and B.J. 1944, University of Texas	
Schmuckler, Derotta	D.C.	Schuppin, Ida Gertrude	D.C.
Schmunk, Frank Virvel	D.C.	Schuster, Anne Marie	N.Y.
Schneberg, Rosalyn	D.C.	Schuster, Louise Mary	N.D.
Schneider, Donna Jane	D.C.	Schutz, Jack Jacob	D.C.
Schneider, Bertram Alexander	D.C.	Schutz, Julian Adolph	D.C.
Schneider, Ella Kathryn	D.C.	Schutz, Melvin	D.C.
Schneider, Herbert William	Colo.	Schwab, Patricia Alice Gertrude	Va.
Schneider, Homer James	D.C.	Schwalb, Fernando	D.C.
B.S. 1942, University of Wisconsin	Wis.	LL.B. 1946, Catholic University, Lima, Peru	
Schneider, Richard Bernard	Va.	Schwanner, Zaira Ernestine	D.C.
Schock, Barbara Joan	Va.	Schwartz, Bella	D.C.
Schoelen, Evelyn Lucilla	D.C.	A.B. 1944, The George Washington University	
Schoen, Richard Davis	Va.	Schwartz, Dorothy Louise	Ohio
Schoen, William	D.C.	Schwartz, Gloria Singer	Va.
B.M. 1941, Eastman School of Music		Schwartz, Helen Janet	D.C.
Schoenfeld, Arthur Derek Reid	Va.	Schwartz, Helene	D.C.
Schoenfeld, Graham Robert	Ill.	B.S. in Ed. 1941, Syracuse University	
Schoenfeld, Leslie Harrison	Utah	Schwartz, Herbert	D.C.
B.S. 1931, United States Naval Academy		Schwartz, Irma Rita	Conn.
M.B.A. 1941, Harvard University		Schwartz, Joseph	D.C.
Scholl, Eileen Elizabeth	Ky.	B.E.E. 1942, College of the City of New York	
Scholtz, Edward K.	Md.	Schwartz, Joseph Brown	D.C.
Schooley, Maude Hicks	Va.		



Schwartz, June Marie Fulks	Md.	Seal, Morgan Swaim	D.C.
Schwartz, Louis	Va.	Seaman, Jean Louise	Md.
A.B. 1937, Brooklyn College		Searle, Margaret Jackson	Md.
Schwartz, Milton	N.Y.	Searle, Willard Franklyn, Jr.	Md.
Schwartz, Morton Julius	Va.	B.S. 1945, United States Naval Academy	Okla.
Schwartz, Olga Edna	N.J.	Sears, Lillian Floyd	Va.
Schwartz, Sam	D.C.	Sewell, Joseph Travis	N.Y.
Schwartz, Simon Joseph	D.C.	Sebastian, Margaret Jacquelyne	N.D.
Schwartzback, Saul Marvin	N.Y.	Sebastian, Pat Harry	Md.
Schwartzman, Sam	N.Y.	Sebestyansky, Elizabeth Joan	
Schwarz, Albert Paul	D.C.	Seckinger, Charles Robert	
Schwarz, Harry Emanuel	D.C.	B.S. in M.E. 1939, The George Washington University	D.C.
Schwarz, Osler Lombroso	D.C.	Seckinger, Daniel Lamont, Jr.	Ga.
B.S. 1944, Georgetown University		Seckinger, Hugh David, Jr.	Md.
Schwarzman, Estelle	N.Y.	Seer, Clara Marie	Pa.
Schweiger, Hertha Maria	N.Y.	Sedlak, Vincent Anthony	Va.
B.S. 1941, Columbia University		B.S. 1947, University of Scranton	D.C.
Schweiger, Irving	N.Y.	Seebode, Ida Benda	Va.
B.B.A. 1939, College of the City of New York		Seebold, Robert Elvin	Va.
Schweiger, Rave Rosenheck	N.Y.	Seegrist, Theo Lorraine	Va.
Schweitzer, Robert John	D.C.	Seegrist, Theodore A.	
Schweitzer, Selma	D.C.	B.S. 1942, The George Washington University	D.C.
A.M. 1945, The George Washington University		Seeley, Margaret Krieg	W.
Schweitzer, William	N.Y.	Seestrom, William Reinholt	
Schwenk, Alberta Dean	Pa.	B.S. 1940, University of Wisconsin	Pa.
Schwie, Hallye E.	Tex.	Seevers, Norma Jane	D.C.
Schwimmer, Robert Lester	D.C.	Segal, Bernard Rubin	D.C.
B.S. 1941, University of Illinois		Segal, Jack Philip	N.Y.
Seiscent, Verdi Italo	D.C.	Seibel, Laurence Elias	
A.B. 1942, University of Alabama		B.S. 1949, College of the City of New York	Va.
Scoglio, Eda Olga	D.C.	Seidman, Milton	Pa.
Scollon, Kenneth Martz	Pa.	B.S. 1938, Johns Hopkins University	D.C.
Scolnick, Daniel	D.C.	Seidner, Albert	D.C.
Scolnik, Reuben	D.C.	Seigel, Irving Marvin	D.C.
B.S. 1939, Bates College		Seigel, Mildred Beatrice	D.C.
Scopi, John Daniel, Jr.	D.C.	Seiler, William Wilkins	D.C.
Scott, Charles Preston	Va.	Seim, Lowell Edgar	Wash.
B.S. 1910, College of William and Mary		Selander, Kenneth John	N.J.
Scott, Charles Watson	Mass.	A.B. 1941, University of Washington	W.
Scott, Donald Lee	Nev.	Seldon, Martin	Va.
Scott, Elizabeth Anne	Tex.	Selinsky, James Joseph	
Scott, Fred William	Minn.	Sell, Wendell Burley	
B.S. in M.E. 1942, University of Minnesota		B.S. 1940, United States Military Academy	D.C.
Scott, Guinevere Feckler	D.C.	Sellers, Lucy Mariah	D.C.
A.B. 1934, University of California at Los Angeles		Semar, Isobel Aenes	D.C.
Scott, Helen Delores	Ohio	Semmes, John Gibson	Conn.
Scott, James Edward, Jr.	D.C.	Sengstacken, Olive Elizabeth	N.Y.
Scott, John Reed, Jr.	D.C.	A.B. 1942, Wellesley College	
B.S. 1943, University of Maryland		Sengstacken, Royal Francis	D.C.
Scott, Judith Carroll	D.C.	A.B. 1943, Colgate University	Ark.
Scott, Lester Mescham	D.C.	Senn, Anna Jene	D.C.
Scott, Loretta Eastman	Va.	Sensing, Vera J.	Va.
Scott, Mary Elizabeth	Va.	Serbin, Alfred James	W.
Scott, Michael	D.C.	Serton, Robert McQuain	Oreg.
Scott, Nancy Jean	D.C.	Servais, Raymond Alois	D.C.
Scott, Robert Ernest, Jr.	N.Y.	Seto, Jack Wing	
Scott, Walter Lawrence	D.C.	Seversmith, Herbert F.	
Scoular, Don	D.C.	B.S. 1935, A.M. 1938, The George Washington University	D.C.
Scovell, Betty Joan	D.C.	Sevin, Charles Henry	
Scoytopoylos, Dora Costa	D.C.	Ph.B. 1931, M.B.A. 1941, University of Chicago	D.C.
Scragg, Paul	W.Va.	Seward, Henry Vincent	D.C.
Scul, Bruce Bernard	D.C.	Seward, Morton W.	Ga.
Scullen, Jessie Louise	Mass.	Sewell, Maude Hicks	D.C.
A.B. 1949, Brown University		A.B. 1916, Cox College	
Scurrah, Beverly Rose	D.C.	Sexton, Rosemary	
B.S. 1942, Syracuse University			
Scurrah, Robert Gordon	Ill.		
Seabrock, Martha Rachel	D.C.		

# Students Registered

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Seritta, Gloria Anna B.S. 1943, Beaver College	D.C.	Shaver, Margaret Mary Shaw, Daryl Winston	Va. Md.
Shadley, Frederick Charles	Pa.	B.S. 1911, Pennsylvania State Teachers College	
Shaeffer, Bernard Andrew A.B. 1943, La Salle College	Pa.	Ed.M. 1916, Duke University	
Shaffer, Allen Osborne	Pa.	Shaw, Douglas Boyce	Va.
Shaffer, Donovan Keith	D.C.	Shaw, Ellen June	D.C.
Shaffer, Dorothy Frances	Md.	Shaw, Kenneth Louis	D.C.
Shahin, Catherine Virginia	Va.	Shaw, Paul MacDonald	Mass.
Shahan, Nettie Kerns	D.C.	Shaw, Richard Earl	Pa.
A.B. 1941, Fairmont State Teachers College, West Virginia		Shaw, Robert C.	Va.
Shahman, Albert Warton	N.Y.	B.S. 1918, University of Michigan	
Shakewitz, Melba Jean	D.C.	Shawe, Betty Belle	D.C.
Shakewitz, S' Verne	D.C.	Shea, Ellen Dorothy	D.C.
Shalhoub, Lucille Stephens	W.Va.	Shea, Mary Caroline	Pa.
Shalowitz, Mervin	D.C.	Shea, Robert Tracy	Va.
Shanahan, Eileen	D.C.	Shea, Wanda Hurr	D.C.
A.B. 1944, The George Washington University		Sheaffer, William Thomas	D.C.
Shanahan, Kathleen Eva B.S. 1941, University of Maryland	Mich.	Shealy, Y. Fulmer	S.C.
Shanapelt, Mary Corinne A.B. 1940, Trinity College	D.C.	B.S. 1943, University of South Carolina	
Shane, Margaret Brinkerhoff	D.C.	Shearer, Mary Chapman	N.J.
Shang, Yun Hua	China	A.B. 1944, Vassar College	
LL.B. 1932, National Central University, China		Sheater, Patricia Lindsay	Calif.
Shankran, Jack Lewis	N.Y.	Shawyer, Robert Christopher	D.C.
Shank, Glenn Paul	D.C.	A.B. 1942, Hobart College	
Shank, Willard Atherton	Calif.	Shearin, Plummer Mastman	N.C.
Shankster, Reuben	D.C.	B.S. 1940, Wake Forest College	
Shanks, Jane Elizabeth	D.C.	Shears, Anne Walker	Va.
Shanks, Oscar Eugene, Jr.	Md.	Shaw, Lindsey	Va.
Shanks, Thelma Nadine	Tenn.	Shible, Edm Howard III	Va.
Shannon, Richard Stoll, Jr.	Colo.	A.B. 1942, Williams College	
A.B. 1938, Stanford University		Sheehan, Charles Richard	Va.
M.B.A. 1940, Harvard University		Sheehan, Katherine O.	D.C.
Shapiro, John Joseph	Md.	Sheehy, Carmen Campbell	Va.
Shapiro, Annette Devorah	D.C.	Sheeskin, Jacob	D.C.
A.B. 1942, The George Washington University		Sheeskin, Zeld Bertha	D.C.
Shapiro, Daniel Murray	N.Y.	Sheets, Evelyn Sydney	D.C.
Shapiro, Eli	D.C.	A.B. 1926, Carson Newman College	
Ph.D. 1945, Columbia University		B.S. in Ed. 1929, University of Virginia	
Shapiro, Evelyn Betty	D.C.	Sheets, Jerome Ritter	Ohio
Shapiro, Jacqueline W.	D.C.	Sheffield, Frederick Thomas	Va.
Shapiro, Leon	N.Y.	Sheehan, Laura Ruth	D.C.
Shapiro, Leonard	N.Y.	Shult, M. Frances	Ark.
B.S. 1941, The George Washington University		Shemer, Leo	N.Y.
Shapiro, Miriam Esther	D.C.	A.B. 1931, LL.B. 1933, Cornell University	
Shapiro, Nettie Sheetz	Pa.	Shelley, Rome I	S.C.
B.S. in Ed. 1941, University of Pennsylvania		Shelley, George William	N.J.
Shapiro, Paul	D.C.	Shelton, Douglas Jordan	D.C.
LL.B. 1926, Cumberland University	Tenn.	Shelton, Emma	D.C.
Sharp, Harold Philip	Ark.	B.S. 1941, University of Maryland	
LL.B. 1918, University of Arkansas		Shelton, John, Jr.	Va.
Sharp, Virginia Lou	D.C.	Shen, Hsin	China
Sharp, William Allen	Va.	Shepard, Charles	
Sharpless, Norman Edward	D.C.	Shepherd, Clarence M.	D.C.
B.S. 1941, The George Washington University		B.S. 1912 M.S. in Chem. Eng. 1913, Cav. School of Applied Science	
Shartzer, Howard Barnaby	D.C.	Shepherd, William Ann	D.C.
Shattuck, Sara Mae	Ga.	Shepherd, William Lamb	Kans.
B.S. in H.E. 1941, University of Georgia		Sheppe, Charles Joseph	D.C.
Shaughnessy, Thomas Elliott	N.Y.	LL.B. 1911, University of Virginia	
B.S. 1931, Massachusetts Institute of Technology		Shepps, Phyllis	D.C.
Shaver, John Willard	N.Y.	Sher, William	D.C.
B.S. 1912, New York University		Sherfey, Joseph Major	D.C.
		B.S. in Ed. 1938, Wilson Teachers College	
		Sherfy, Laurence Polk Shern	D.C.
		A.B. 1933, LL.B., 1935, The George Washington University	
		LL.M. 1937, Harvard University	
		Sheridan, Betty Jane	D.C.

Sheridan, Philip Henry	D.C.	Showalter, Nancy Elizabeth	Md.
B.S. in E.E. 1944, Worcester Polytechnic Institute		Showalter, Warren Franklin	Va.
Sheridan, Philip Roy	Pa.	Showkeir, Juhan Mansour	Va.
Sherk, Edward Neville	Va.	Shrak, Josephine Agnes	Pa.
Sherman, Lawrence	Calif.	Shreve, Mary Fairfax	Va.
Sherman, Marianne	D.C.	A.B. 1935, College of William and Mary	
Sherman, Phyllis S.	D.C.	Shuck, Virgil DeWitt	Okl.
Sherman, Ruth T.	Va.	A.B. 1937, Westminster College	
Sherr, A. Joseph	D.C.	M.B.A. 1943, Harvard University	D.C.
Sherry, Edward Norman	D.C.	Shudde, Evelyn Ann	N.Y.
B.E.E. 1941, Syracuse University		Shuey, Elva Town	
Sherwood, James Steck	Va.	A.B. 1927, The George Washington University	
Sherwood, Robert Henry	Conn.	Shugin, Herman J.	D.C.
Sherwood, Virginia	Va.	Shugrue, John Fenwick	Md.
Shesser, Ira	N.J.	Shulman, Bernard Herman	Mass.
Shetterly, Richard Nernst	Md.	Shulman, Harold	D.C.
Shewling, Heloise Jayne	Calif.	Shulman, Ruth Rachel	D.C.
Shia, Bertha Ann	Ohio	Shultz, Mattie Lou	D.C.
Shibley, Frances Wilhelm	Va.	Shumaker, Eliza Cochran	
Shuck, James Robert	Oreg.	A.B. 1944, Smith College	Va.
A.B. 1940, Pacific University		Shumaker, James Lee	D.C.
Shields, Elsie Tracy	Md.	Shuman, Ida Irene	Va.
Shields, Failey Laren	Va.	Shumate, Velva Nettie	Va.
B.S. 1943, Hampden-Sydney College		Shupe, Mary Gladys	Oreg.
Shields, James Talbott	N.Y.	Shurtleff, Harb Harrison	Utah
Shields, John Joseph	Pa.	Shurtleff, Miller Francis	Ark.
Shields, Susan Braddy	Md.	Shutt, Mary Frances	Md.
Shifflett, Paul Robert	D.C.	Stable, John David, Jr.	Iowa
B.S. in E.E. 1941, Iowa State College		Siamis, George B.	
Shifflet, Ethel Mary	Va.	A.B. 1938, Coe College	Chi.
B.S. 1943, Wilson Teachers College		Siao, Chen-Yung	N.Y.
Shifflet, Paul Wilson	D.C.	Sich, Muncie Anna	N.Y.
A.B. 1936, Bridgewater College		Siciak, Walter Stanley	D.C.
Shilepsky, Norman	D.C.	Sickles, Lillian	N.C.
Shillinger, Frederick William	Md.	Sidbury, Billie Daniel	D.C.
Shimp, LaVerne Charles	W.Va.	Siddens, John Allan	Utah
Shine, Seymour Walker	Md.	Siddaway, John Lewis, Jr.	Ala.
B.B.A. 1943, College of the City of New York		Sidle, Thelma Blanche	D.C.
Shinn, Flora Ann	D.C.	Sidorov, Vladimir Andruvich	Va.
Shiozana, Sam	Idaho	Siegel, Nolan Bernice	D.C.
B.S. 1941, Utah State Agricultural College		Siegel, Harold Bernhard	D.C.
Shipkey, Alma Marie	Nebr.	Siegel, Jessie	Ohio
Shipley, Edward George	D.C.	Siegfried, Robert Eliwood	Pa.
Shir, Bertha Ann	Ohio	Siegmart, Erma Charlotte	D.C.
Shishmanian, Elizabeth Anne	R.I.	Sieker, Margaret Ellis	Calif.
Shrideman, Lenore H.	D.C.	Siem, Arne Ole	D.C.
Shockey, Charles Carl	D.C.	Sierichs, Helen T.	Ohio
Shoenmaker, Lemuel Isaac Henry	Ala.	Siermen, Kathryn Marie	W.Va.
Shoenmaker, Randall, Jr.	Va.	Siewer, Salthe Ann	D.C.
Shonick, William	N.Y.	Sizers, Richard Lawrence	Ohio
B.S.S. 1942, College of the City of New York		Sutton, Richard Roland	Mass.
Shook, Paschal Green, Jr.	Ala.	Szenaigo, Florence Isabel	
A.B. 1935, Princeton University		A.B. 1941, A.M. 1943, University of Michigan	D.C.
L.L.B. 1948, Yale University		Sigueira, Sylvia Herrignes de	Mich.
Shuckman, Loyd Allen	D.C.	Sih, Joseph Vincent	D.C.
Shope, Lois Ann	Pa.	Sihler, Florence Ada	D.C.
Shor, Hilda	Va.	A.B. 1917, University of Kansas	D.C.
Short, Kathleen Elizabeth	D.C.	Silber, Roselyn	N.J.
Short, Morris Robert	Calif.	Silbert, Leo	
A.B. 1918, The George Washington University		Silk, Harry	
Shortley, Barbara Mary	D.C.	B.S. in E.E. 1931, Newark College of England	
Shortley, Marjorie R.	D.C.	M.S. 1941, The George Washington University	Fla.
Shostack, Robert	D.C.	Silra, Arlene Madeline	D.C.
A.B. 1917, The George Washington University		Silva, Jevanal Nunes Da	Cuba
Shoun, Wendell Keith	S.D.	Silva, José Luis	D.C.
Shoup, Ruth Irene	Pa.	B.S. 1943, Villanova College	Md.
		Silva, Newton de Banos	
		Silverman, Eva G.	



Simenauer, Hildegard	D.C.	Siskind, David L.	N.Y.
Simha, Genevieve Martha	D.C.	B.S.S. 1938, College of the City of New York	
A.B. 1937, Antioch College		Sislen, Maurice Arthur	D.C.
B.S. in L.S. 1939, Columbia University		A.B. 1944, The George Washington University	
Simm, Eunice Perry	Mass.	Sister, Mary Madeline	D.C.
A.B. 1938, Mt. Holyoke College		Sisman, Bella	Ohio
L.L.B. 1941, Boston University		Siss, Richard Howard	N.J.
Simmons, Bernice	D.C.	Sites, James Glover	Va.
Simmons, Charles Richard	D.C.	Sitz, Glenn William	D.C.
Simmons, Dale Mell	Okla.	Sivertsen, Marilyn Carol	Md.
Simmons, Delford Edgar	D.C.	Skaine, Louise Hamby	D.C.
Simmons, Dorothy Jean	Va.	Skeeba, Holyane Audrey	D.C.
Simmons, Earle Mitchell	N.C.	Skeel, Ralph Lloyd	Va.
Simmons, Helen Fayson	D.C.	Skelton, James Roper	Va.
Simmons, Henry Taylor	D.C.	A.B. 1938, Mississippi College	Idaho
Simmons, John Rogers	D.C.	Sklar, James Jay	
Simmons, Joseph Alvin	D.C.	B.C.L. 1945, The George Washington University	
Simmons, Leonard Glenn	Mo.	Skillman, Douglas Benjamin	Va.
Simmons, Walter L.	Okla.	B.S. in Met. 1942, Pennsylvania State College	
Simms, Barbara Anne	D.C.	Skinker, Mary Jane	D.C.
Simms, Stanley Hazen	D.C.	Skinner, Russell	D.C.
Simon, Florence June	N.Y.	Skinner, Verel Thompson	N.Y.
Simon, George Hanna, Jr.	D.C.	Skowronek, Hatfield	Mass.
Simon, Maxine Adele	D.C.	Skrick, Helen Lorretta	D.C.
Simon, Philip	Iowa	Slackman, Seymour Jacob	Va.
Simon, Philip David	D.C.	Slappey, Carolyn Rutherford	D.C.
Simon, Robert Charles	D.C.	Slappey, Mary McGowan	D.C.
Simonson, Catherine Virginia	D.C.	Slater, Carol Taky	Calif.
Simpson, Barbara Louise	Md.	Slater, Ronald Ballard, Jr.	
Simpson, Elizabeth Ann	D.C.	A.B. 1942, University of California	Mich.
Simpson, Jack B.	Pa.	Slatin, Harry	
Simpson, James Shores	M.I.	L.L.B. 1926, University of Detroit	N.Y.
Simpson, Joan Heather Ross	D.C.	Slaton, Myles	Pa.
Simpson, John Temple	D.C.	Slee, Harold Maxwell	N.D.
B.S. in C.E. 1935, University of Michigan		Sletten, Robert Eugene	D.C.
Simpson, Mary Audrey	D.C.	Slater, Walter Lloyd	
Simpson, Melvin	N.J.	Ph.D. 1931, University of Pennsylvania	
B.S. 1942, College of the City of New York		Sload, Philip H.	Va.
Simpson, Robert Emmett	Va.	Sloan, Irene	Va.
Simpson, Roxie Collic	N.C.	Sloan, Theodore Henry	Va.
A.B. 1932, Meredith College		Sloan, Beatrice Jean	Mich.
Simpson, Thomas Walter	Mass.	Sloann, James Robert	Ga.
Simpson, Wendell Kohl	D.C.	B.S. in Eng. 1934, Georgia Institute of Technology	
A.B. 1937, De Pauw University		Slothower, John Henry	D.C.
J.D. 1941, Northwestern University		Sloder, Virginia	D.C.
Simpson, William Francis	D.C.	A.B. 1941, Meredith College	D.C.
B.S. 1920, Catholic University of America		Slusher, Sarah Velma	D.C.
A.M. 1932, The George Washington University		Slusher, William J.	D.C.
Simpson, William Littlejohn	D.C.	Small, Edward I.	Va.
Sinclair, Ruth Joan	Canada	Smart, J. Samuel	
Sinclair, Lucille W.	S.C.	A.B. 1939, Westminster College	
Sing, Joseph Lee	D.C.	M.S. 1941, Louisiana State University	Wis.
Singley, Barbara Jean	N.Y.	Smasal, O. Michael	Conn.
A.B. 1943, Barnard College		Smart, August Joseph	D.C.
Singman, Henry Dick	D.C.	Smiler, Wesley Bruce	N.Y.
Sinsabaugh, James Alexander	Va.	Smiley, Jane Constance	
Sipe, Edith Virginia	Mo.	A.B. 1942, Cornell University	D.C.
Sipes, Oera Fink	Va.	Smiley, Phyllis Pearl	D.C.
A.B. 1926, Hood College		Smith, Alice Virginia	D.C.
Sippo, Weikko Elmer	Oreg.	Smith, Allen Carol	D.C.
Sirbaugh, Isaac William	Va.	Smith, Alma Marie	Minn.
Sirmai, Albert	D.C.	Smith, Adette Maye	Ky.
Sirna, Anna J.	D.C.	Smith, Barbara Ball	D.C.
Sirota, Mildred Harriet	D.C.	Smith, Barbara Ellen	Calif.
A.B. 1945, The George Washington University		Smith, Barbara S.	
Siak, Andrew M.	D.C.	A.B. 1945, State College, Santa Barbara, Calif.	

Smith, Benjamin Williams B.S. 1940, Virginia Polytechnic Institute	D.C.	Smith, Margaret Lyon Smith, Marion Evelyn A.B. 1945, Shorter College	D.C. D.C. Ga.
Smith, Bertha	D.C.	Smith, Mary Louise B.S. 1926, University of Chicago	Va. D.C.
Smith, Bonnie Kate	D.C.	Smith, Maynard Tune	Md.
Smith, Carl Edgar, Jr. A.B. 1938, Princeton University	Md.	Smith, Myrtle Agnes	N.H.
Smith, Carol Yvonne A.B. 1944, Tulane University	D.C.	Smith, Nelson Hudson	D.C.
Smith, Catherine Maine Waters	D.C.	Smith, Nira Oberlene	Md.
Smith, Charlene Fae	Va.	Smith, Pamela Weasley	Ind.
Smith, Charles Earl	Ohio	Smith, Patricia Ann	Mass.
Smith, Charles Henry, Jr.	Va.	Smith, Pearl O.	Md.
Smith, David Bushnell	D.C.	Smith, Phyllis Elaine	
Smith, Delos Grosvenor, Jr.	D.C.	Smith, Quayle Bowerman A.B. 1940, Drake University	Ind.
Smith, DeVere Rogers	Va.	Smith, Randle Ross B.S. in M.E. 1936, Purdue University	Mich.
Smith, Donald Arthur	Md.	Smith, Robert Lee	Fla.
Smith, Dorothy Ellen	Va.	Smith, Robert Milton	Md.
Smith, Dorothy Jean	D.C.	Smith, Robert Tynes III	Oreg.
Smith, Dorr Newell	Maine	Smith, Roberta Evelyn A.B. 1936, Williamette University	D.C.
Smith, Eleanor Grace	N.C.	Smith, Roger Emerson	Tenn.
Smith, Eldon Blake B.H. 1939, Kansas University	Kans.	Smith, Roscoe	D.C.
M.P.A. 1942, Harvard University		Smith, Ruth Elizabeth	D.C.
Smith, Estelle Viola	D.C.	Smith, Ruth Ellen	Va.
Smith, Ethel Louise	D.C.	Smith, Samuel Rodmond	D.C.
A.B. 1931, A.M. 1933, American University		Smith, Shirley B.	Miss.
Smith, Evander Cade	Ala.	Smith, Susie Mae	Ga.
Smith, Felix Teisseire, Jr. A.B. 1942, Williams College	Calif.	Smith, T. Oscar A.B. 1935, Lincoln Memorial University	D.C.
Smith, Frances Dean	Calif.	Smith, Thomas Lewis	Ang.
Smith, Frances De Lotes	D.C.	Smith, Van Marsden	N.C.
Smith, Frances Elizabeth	Va.	Smith, Walker William	N.Y.
Smith, Francis D.	D.C.	Smith, Wilhemine Joan	D.C.
Smith, George Foster	N.M.	Smith, William Ellison	D.C.
B.S. 1934, California Institute of Technology		Smith, Winifred Joyce	D.C.
Smith, Grace B.	Va.	Smith, Yvonne Margaret	Calif.
Smith, Grace Horsley	D.C.	Smithers, Laura Helen	Conn.
Smith, Harold Jerome	D.C.	Smithson, Richard Yost	
Smith, Harry Kenneth A.B. 1945, La Salle College	D.C.	Smolen, Cecile Flora A.B. 1944, Wellesley College	D.C. D.C.
Smith, Hazel Margaret	Va.	Smolen, Stan Lee	
Smith, Herschel LeRoy, Jr. B.S. 1943, University of Oklahoma	Okla.	Smook, Malcolm Andrew B.S. 1945, University of California	D.C.
Smith, Ivan Edgar	Ohio	Smookler, Morton Bernard	Pa.
Smith, J. Russel	Utah	Smoot, Jeannette Irving	Va.
Smith, Jack W.	Tex.	Smull, William A.B. 1941, Columbia University	D.C.
Smith, Jackson Wray	Calif.	Smyth, Betty Dent	D.C.
Smith, James Barclay	D.C.	Smyth, Constantine Joseph	D.C.
Smith, Jane Darden	D.C.	Smyth, Thomas John	W.Va.
Smith, Jean Ellen	Maine	Snaveley, Charles Thomas A.B. 1927, Lincoln Memorial University	N.Y.
Smith, John Daniel	D.C.	Snell, Harriet Jacqueline	Va.
Smith, Josephine L. A.B. 1910, University of Buffalo	D.C.	Snider, Leonard Alfred	Okla.
A.M. 1943, The George Washington University		Snider, Sidney Raymond	
Smith, Julia Mae A.B. 1918, Howard College	Ala.	Snoddy, Joe Spruce A.B. 1941, The George Washington University	Iceland Ohio
Smith, Julian Lyle	Calif.	Snorraddottir, Thilda	
Smith, Kate Prudence	S.C.	Snow, Donald Loesch B.S. in C.E. 1939, Case School of Applied Science	D.C.
Smith, Kay Elaine	D.C.	M.S. in C.E. 1941, University of Wisconsin	D.C.
Smith, Kendall Owen	N.C.	Snow, Margaret Ann Throckmorton A.B. 1937, Iowa Wesleyan College	D.C.
Smith, Lawrence Crane	N.Y.	Snow, Robert Francis	Md.
Smith, Lawrence Sinclair A.B. 1939, University of Florida	Fla.	Snow, Robert Maughan B.S. 1940, A.M. 1943, The George Washington University	
Smith, Leon Kushner	D.C.		
Smith, Linore Madeline	D.C.		
Smith, Lois Christine	Ark.		
Smith, Lois Elaine	Va.		
Smith, Louis Guy, Jr.	Va.		
Smith, Margaret Eleanor	Va.		
Smith, Margaret Ellen	Ind.		

Snow, Ruth Marie	D.C.	Sowers, Murial Schatz	D.C.
Snowden, C. Ralph	W.Va.	A.B. 1943, The George Washington University	
Snyder, Anne Delp	Va.	Sowryda, Theodora	D.C.
A.B. 1942, University of Pittsburgh		Soyster, Hale Bryan	Calif.
Snyder, Constance Leith	D.C.	Spada, Aldo Frank	Mich.
B.S. 1944, Iowa State College		Spagnola, Catherine Dolores	N.Y.
Snyder, Dorothy Louise	D.C.	Spaid, Giles Henry	D.C.
Snyder, Edith Cook	D.C.	Spalding, Lillian Beatrice	Va.
Snyder, Esther Iva	D.C.	Spann, George Klepfer	D.C.
Snyder, Geraldine Helen	D.C.	Spanogle, Lee Warren	D.C.
Snyder, John Daniel	D.C.	Sparkman, Joseph Ben	Tex.
Snyder, Lueille	D.C.	B.S. 1942, Rice Institute	
Snyder, Martha Frances	Va.	Spangler, William Allen	D.C.
Snyder, Paul J.	Md.	Spar, Irving Leo	D.C.
Snyder, Sidney	Pa.	Spaulding, Cecil Caylon	Va.
Sober, Margaret Elizabeth	Pa.	Spaulding, Wallace Paul	D.C.
Sobin, Bernard	N.Y.	Speaker, June Marie	Va.
B.S. in S.S. 1938, College of the City of New York		Speaker, Richard B.	D.C.
Soderberg, Henning Edmund	D.C.	Spear, Suzanne Catchings	D.C.
Soderstrum, Anna Christine	Md.	Spearman, Eloise Lenore	D.C.
Sogin, Harold Hymen	N.Y.	Spears, Constance H.	Okla.
B.S. 1943, Illinois Institute of Technology		Spector, Avron Lipscher	Mass.
Solbers, Marian R.	D.C.	B.S. in E.E. 1943, Tufts College	
Sollins, Alfred D.	N.Y.	Spector, Eugene Paul	Mass.
A.B. 1945, The George Washington University		Spector, Sharon Madeline	D.C.
Sollins, Nancy Thurber	N.Y.	Spector, William Samuel	D.C.
A.B. 1945, The George Washington University		Spence, Neta Withington	D.C.
Solnitzky, Dorothy Louise	Md.	Speer, William Thomas	D.C.
Solomon, Barton	D.C.	Speicher, John Perry	Md.
B.S. 1941, University of Maryland		Spence, Mary J.	D.C.
Solomon, Myra Annette	Md.	Spence, William Roy	Va.
Solomon, Robert Joseph	Mich.	B.S. 1941, The George Washington University	
Solinski, Sophie Agnes	Pa.	Spencer, Grace Vicar	D.C.
Solt, James Earl	Md.	A.B. 1932, College of Education, Greeley, Colo.	
A.B. 1934, University of Maryland		Spencer, Helen Mather	D.C.
A.M. 1949, Columbia University		A.B. 1942, The George Washington University	
Summers, Leonard	Mass.	Spencer, John W. H.	Va.
Sumner, Edmund Totten, Jr.	Va.	Spencer, Orson Burnham	Utah
Sonnenbend, Joel Simon	D.C.	Spencer, Robert Henderson	D.C.
Sonnenman, Ethel Mildred	N.Y.	Spencer, Ruth Marie	Md.
B.S. 1942, New York University		Spencer, Virginia Mae	Tenn.
Sonnenberg, Arthur Theodore	Pa.	Sperling, Beverly Joan	D.C.
Souanis, Mavis A.	D.C.	Sperling, Melvin Arnold	D.C.
Super, Hulda	N.Y.	Spero, Abraham	D.C.
Surden, Leroy Vincent	D.C.	A.B. 1944, The George Washington University	
Sureide, Louis Severin	Va.	Sperry, Geraldine G.	Minn.
Sorenson, Clara Thelma	Iowa	Spessard, Howard Lehman	Md.
Sorenson, Marian Ruth	Iowa	A.M. 1934, University of Michigan	
Sorn, A. Benjamin	N.Y.	Spicknall, Walter Dudley	D.C.
Sorson, Robert Oscar	D.C.	Spiegel, Morton Lee	D.C.
Sorrows, Howard Earle	Tex.	Spiegel, Reba E. Diane	N.J.
A.B. 1940, Baylor University		Spies, Harold W.	Md.
Sortor, Olive	Md.	A.B. 1942, Mt. Union College	
Sonick, Adelle Diana	D.C.	Spiker, Carlisle Titus	D.C.
Soto, Oliver	D.C.	Spindel, Sidney Simon	Md.
Souder, George Ernest	D.C.	Spindler, Pearl Goldstein	N.Y.
Souder, Helen Warfield	Md.	A.B. 1940, Hunter College	
Soule, Robert Messinger	Mass.	Spitalney, Claire Toby	D.C.
Soupouras, Helen Zenon	D.C.	Spitz, Hillel	Conn.
South, Dorothy I.	Tenn.	A.B. 1943, The George Washington University	
A.B. 1943, Southwestern University		Spitznas, James Ernest	Md.
Southard, Ann Nelson	N.D.	A.M. 1920, Columbia University	
Souther, Carolyn F.	Md.	Spoonamore, Edward Bruce, Jr.	D.C.
Southerland, Edwin Williams	Ga.	Spradlin, Margaret Loretta	Va.
B.S.C. 1937, LL.B. 1940, University of Georgia		Spraker, Glenna M.	Iowa
Souza, Arthur Alves	D.C.		
Sowers, James Adam	Calif.		
A.B. 1943, Fresno State Teachers College			



Springer, Richard Donald	D.C.	Stearn, Joseph Leonard	D.C.
Springfield, Andrew Lee	Okla.	B.S. 1940, College of the City of New York	
A.M. 1950, University of California		Stearns, Frederick Edward	D.C.
Springgate, Marjorie Evelyn	Ill.	Stearns, Miriam	D.C.
Springman, Mary Regina	Va.	Steck, Philip Clifford	D.C.
Spurlock, Eileen Mae	W.Va.	Stedman, Richard Guy	D.C.
Spurr, Warren Franklin	Wis.	Steele, Henry Emmet	D.C.
Squier, Beverly Jane	Va.	Steele, Barbara Lee	
Squire, Elinor	Minn.	A.B. 1945, Bryn Mawr College	Utah
A.B. 1935, University of Kansas		Steele, Mary Scott	Wn.
Squire, William	D.C.	Steffen, Edward J.	
B.S. 1941, College of the City of New York		B.S. 1941, Milwaukee State Teachers College	
Squires, Charles Lloyd	Pa.	Stegall, Ruth Rose	Minn.
Squires, Mary Donathia	Md.	Stein, Alice B.	Va.
Srensek, Stanley Edward	Ohio	Stein, Anne K.	N.Y.
Stack, Wilbert Edward	Mo.	Stein, Harold Lawson	D.C.
B.E.E. 1930, University of Detroit		Stein, Jacob	D.C.
Stacy, Emily Mildred	D.C.	Stein, Morris Isaac	N.Y.
Stacy, Madge Bernice	Tex.	B.S.S. 1940, M.S. 1942, College of the City of New York	
Staehner, Philip Merrill	Va.	Stein, Orren Fischer	D.C.
Stafford, Juanita Thompson	D.C.	Stein, Ralph	D.C.
Stahmak, Mary	Md.	A.B. 1945, The George Washington University	
Stanger, Jean Whittier	Ind.	Steinacker, Elaine Charlotte	D.C.
Stakeman, George Howard	D.C.	Steinbach, Heinz Wilbur	D.C.
Staldarl, Mary Alice	Okla.	A.B. 1942, The George Washington University	
Staley, Robert Ross		Steinberg, Dorothy	D.C.
B.S. 1942, M.S. 1943, California Institute of Technology	Ariz.	A.B. 1932, Hunter College	Md.
Stalker, Richard Wright	D.C.	Steinberger, Hugh Marion	
B.S. 1931, Oregon State College	Minn.	B.S. 1941, University of Virginia	D.C.
Stallings, William Paul	Utah	Steines, Esther Bertha	D.C.
Stallman, Elnora Ann	N.Y.	Steines, Lorene N.	Mo.
Stallsworth, Max Clifton	Mo.	Steines, Marcella Louise	N.Y.
Stambler, Iowin	Md.	Steinfeld, Bernice	
Stamer, Paul Fred	D.C.	A.B. 1945, New York University	D.C.
Stamm, Bertie	D.C.	Stenfort, Oliver Wallace	D.C.
Stamper, Dorothy Elizabeth	Md.	Stellwagen, Barbara Pierson	Minn.
Stamper, Harvey Hugh, Jr.		Stelzer, Lois Elaine	D.C.
Stancati, Madelon Franklin	N.Y.	Stern, Sidney Jerome	Pa.
B.S. 1929, M.S. 1931, University of Pittsburgh		Stembler, Selma	D.C.
Stander, Golda Gertrude		Steninger, John B.	Colo.
B.S. in Ed. 1912, M.S. in Ed. 1915, College of the City of New York	Md.	Steninger, Mary M.	
Stanford, I. Milton		A.B. 1915, Harris Teachers College	D.C.
A.B. 1912, University of Illinois	N.C.	Stephan, Elsie G.	D.C.
Stanford, James William	D.C.	Stephen, Aurora	Va.
Stanley, Eric	Maine	Stephens, Fletcher Thompson, Jr.	Md.
Stanley, Laura May		Stephens, Jack Payne	Iowa
A.B. 1922, Colby College	Md.	Stephens, Joseph Thornell	
Stapf, Shirley Anne		A.B. 1929, University of Nebraska	D.C.
A.B. 1941, University of Maryland	N.M.	Stephens, Wade Naisbitt	
Stapleton, Carl William		B.Mus. 1920, M.Mus. 1932, Northwestern University	D.C.
B.S. 1942, United States Military Academy	N.Y.	Stephenson, Earl Donald	Ill.
Stapleton, John Robert	N.M.	Stephenson, John Leslie	D.C.
Stapleton, Louise Maxine		B.S. 1943, Harvard University	Md.
B.S. 1942, University of New Mexico	Va.	Sterling, Gisela	D.C.
Stark, Carl E.	Md.	Sterling, James Thaddeus	W.Va.
Starkey, Elizabeth Bowie	N.C.	Sterling, Richard Stanley	N.Y.
Starling, Pamela Ann	Ky.	Stern, Albert Irvin	
Starna, Charles Edwin	Ky.	Stern, Betty Eising	D.C.
Starna, Henry Carroll	N.Y.	A.B. 1945, Swarthmore College	D.C.
Staron, Vina Teresa	D.C.	Stern, Julian Bennett	N.Y.
Starr, David Whelpley	Ala.	Stern, June Ellen	
Starr, Leland Edson, Jr.	D.C.	Stern, Miriam Kate	Conn.
Staszny, Robert William	D.C.	A.B. 1934, Hunter College	Ill.
Stathopoulos, Christine Spyros	Pa.	Stern, Sylvia	
Statler, P. Gene	D.C.	Sternberg, Edward	Va.
Staub, Donald William	Ind.	M.B.A. 1941, University of Chicago	
Steadman, Helen Louise		Sternor, Helen Julia	

Sternfeld, Yetta Grant	N.Y.	Stoller, Raymond	D.C.
Stewart, Allen Wesley	Va.	A.B. 1943, The George Washington University	
A.B. 1936, LL.B. 1938, LL.M. 1940, The George Washington University		Stolzenbach, Charles Darwin	Va.
Steuer, Bertram Morton	D.C.	A.B. 1941, The George Washington University	
Steuer, Phyllis Thelma	D.C.	Stone, Claudia	Md.
Stevens, Dewayne Bovard	Pa.	Stone, Elmer Arvil, Jr.	D.C.
Stevens, Dorothy Chedaker	D.C.	Stone, Gregory Eugene, Jr.	Conn.
Stevens, Robert Fitzhugh	Va.	A.B. 1931, Harvard University	
Stevens, Willard Lamont	D.C.	Stone, Karl Letter	D.C.
Stevenson, Alice Louise	Ind.	Stone, Luther Edward	Md.
Stevenson, Iris Mabel	Kana.	Stone, Marion Dolores	Va.
A.B. 1948, M.S. 1940, Ft. Hays Kansas State College		Stone, Robert Oliver	Md.
Stevenson, Margaret May	D.C.	Stone, Rose Louise	W.Va.
Stevenson, Octavia Sykes	D.C.	Stone, Virginia Greer	Md.
Stevenson, Ruth Blackwell	Md.	Stone, William Leete III	Va.
Stevenson, William Ross	Va.	Stonemetz, Anne	Va.
Stevlingson, Edward Christian	Wis.	Stonesifer, Joseph Novak	Ill.
Stewart, Anita May	Va.	B.S. 1936, University of Illinois	
Stewart, Anne Aileen	D.C.	Storall, Dorothy Ruth	D.C.
B.S. in Ed. 1917, University of Missouri		Storck, Dorothy de Verdery	Md.
Stewart, Anne Marie	Va.	Storey, Benjamin Love	Md.
Stewart, Bridget Gremillion	D.C.	Storm, Shirlev Dee	Nebr.
Stewart, Charles Lesue, Jr.	Ill.	Story, Elwyn Glenn	Tenn.
A.B. 1940, University of Illinois		Stotler, Robert Cressp	Wash.
A.M. 1941, Louisiana State University		B.S. 1945, Stanford University	
Stewart, Charles Todd, Jr.	Md.	Stout, Henry Wallace	D.C.
Stewart, Clark Betty	Md.	Stout, Mary Ruth	D.C.
Stewart, David Alfred, Jr.	Md.	Stoutenburgh, Pamela Terry	D.C.
Stewart, Frederick Gordon	Mass.	Stovall, Milton Alva	Ala.
Stewart, Hayes Gale	Kana.	Stovall, William Gilbert	D.C.
Stewart, Helen Louise	Ala.	Strader, Eloise Correll	Va.
Stewart, Howard Hutchens	Va.	B.S. in Ed. 1942, Mary Washington College	
Stewart, Isabel Anderson	Va.	Strahan, Mary Sue	La.
Stewart, Rodney Ward	Va.	A.B. 1942, Tulane University	
A.B. 1933, Carleton College		Strahl, Violet Leona	D.C.
A.M. 1934, University of Chicago		B.S. in Ed. 1937, Ohio State University	
Ph.D. 1938, Harvard University		Strasberg, Murray	N.Y.
Stewart, William Clarence	Nebr.	B.S. 1938, College of the City of New York	
Stibolt, Victor Davis	D.C.	Strasnick, Irving H.	R.I.
Stickle, Leonard R.	N.Y.	A.B. 1936, Brown University	
B.S. 1936, College of the City of New York		LL.B. 1939, Yale University	
A.M. 1917, Columbia University		Stratford, Ralph Ballantyne	D.C.
Stiegmeyer, Katherine Louise	Ill.	Stratton, Lawrence	N.Y.
A.B. 1935, A.M. 1939, University of Illinois		A.B. 1941, The George Washington University	
Still, Samuel Hutchins	S.C.	Straub, William Harry	D.C.
A.B. 1929, The Citadel		Strauss, Iris May	D.C.
Still, Bertram	D.C.	Straw, Russell Don	Pa.
Stillwell, Homer Allison	D.C.	Stroeter, Barbara Jean	D.C.
Stime, Mildred C.	D.C.	Stroets, Ronald Emerson	D.C.
A.B. 1943, A.M. 1945, The George Washington University		Strehl, Robert W.	Calif.
Stine, Wilma Pearl	Ohio	Stein, Arthur Norman	Pa.
A.B. 1937, Western Reserve University		Strickland, James Madison	S.C.
Stirling, Dean Arthur	D.C.	Strickland, Lawrence Gordon	D.C.
Stirling, Mary Jane	D.C.	Strickland, Ruby Ariens	Ga.
Stith, Rees Daniel	La.	Strieter, William Leo	D.C.
Stitt, Lucille Alma	D.C.	Stringer, Hazel Ree	Miss.
A.B. 1939, Ohio State University		Stringer, Sue Evelyn	Ky.
Stockard, Charles Geer	Va.	Stringham, Gale Smedley	Md.
Stockbridge, Henry Patten	Md.	Strohmeier, John	Pa.
A.B. 1939, Amherst College		Stromswold, Hugh Charles	Va.
Stoker, Martha Frances	Pa.	Strong, Dixey Lee	D.C.
Stokes, K. Celeste	D.C.	Strong, Laurie Barber	Ala.
Stokes, Susanne	Md.	Strong, William Ronald	D.C.
Stolar, David Maurice	D.C.	Stroosnider, Fred B.	Va.
Stolarski, C. Robert	D.C.	Stroud, Helen Lucille	S.C.
Stoll, Walter Arthur	D.C.	Stroupe, Barbara Hill	Va.
		A.B. 1940, Winthrop College	

Stroupe, Lawson Sidney	Va.	Sutherland, Barbara Luella	Pa.
Strouse, David Hutzler	Va.	B.S. 1943, Ohio Northern University	D.C.
Strout, Warren Greenleaf	Maine	Sutherland, William Robert	N.Y.
A.B. 1943, University of Maine		Sutphen, Preston Loss, Jr.	Ga.
Strozz, Philip Hunzio	D.C.	Sutton, Eileen Nae	Md.
Strub, Norbert George	Ala.	Sutton, Harold Griffith	Md.
Struble, Alden Herman	Mich.	Sutton, Virginia Lee	Nev.
M.S. 1932, University of Michigan		Suver, Maryjo	Va.
Struhl, Hilda Lillian	D.C.	Svedberg, Barbara Jean	Minn.
Strunk, Robert Wesley	D.C.	Svenson, Lawrence M.	D.C.
B.S. 1938, State Teachers College,		Svydam, Mary Elizabeth	Tex.
Buffalo		Swain, Hazel Burroughs	
Strupp, Hans H.	D.C.	B.S. 1940, East Texas State Teach-	
A.B. 1945, The George Washington		ers College	Wash.
University		Swan, Robert E.	
Strupp, Werner	D.C.	B.S. 1937, College of Puget Sound	Pa.
Stuart, Kenneth Earl	Ind.	Swann, Clarence Richard	D.C.
Stubbs, Lewis Glenn	Va.	Swanson, Alf E.	
Stroke, Adela L.	Tex.	B.S. in M.E. 1932, Montana State	
A.B. 1941, The George Washington		College	Kans.
University		Swanson, Alue M.	Va.
Studdart, Kathleen Mary	Minn.	Swanson, Chester Woodrow Eugene	Kans.
Stull, Geraldine Merian	Md.	Swanson, Isabel Mary	D.C.
Stultz, Norman Frederick	Mass.	Swanson, Rollan	Va.
Stump, Imogene Stroh	Ohio	Swanson, Charles William	Va.
Sturman, Ivan Peter	D.C.	Swartout, Jean Iona	D.C.
Stutzman, David	D.C.	Swartz, Eugene	Pa.
Stuyt, Giacomo Constantine	The Netherlands	Swartz, Sydney Marshall	
Building Engineer, 1941, Delft, Holland		B.S. 1942, Pennsylvania State College	D.C.
Suber, James Wesley	D.C.	Sweeney, Juanita McElveen	Md.
A.M. 1940, The George Washington		Sween, Laura Lee	
University		B.S. 1937, University of Maryland	D.C.
Suber, William Ellis	Va.	Sweeney, Patrick Martin	N.Y.
Suchman, Janet Malkin	Va.	Sweet, Harold Raymond	
B.S. 1940, Cornell University		B.A.E. 1942, Rensselaer Polytechnic	
M.S. 1940, Columbia University		Institute	D.C.
Suddith, Charlotte Eleanor	D.C.	Sweet, Henry	D.C.
Sugar, Harold Samuel	D.C.	Sweitzer, Claude Earl	Colo.
Sugar, Rhoda Natalie	D.C.	Swenson, Carl Robert	S.D.
Sugg, Hazel Davey	D.C.	Swenson, Martin Steig	Utah
Sugg, Ronald Earl	Va.	Swenson, Dale Abbott	D.C.
Sngg, William Leonard	N.C.	Swenson, Nella Jean	D.C.
Sullivan, Charles Andrew	D.C.	Swiderski, Anne J.	D.C.
Sullivan, Eunice Filcen	Mass.	Swift, Barbara Perry	N.J.
B.S. 1943, The George Washington		Swiller, Dolores	N.J.
University		Swiller, Sydney	Ill.
Sullivan, Harry John	D.C.	Swim, Allen Edward	D.C.
Sullivan, Kathleen Veronica	Vt.	Swine, Patricia Mary	N.C.
Sullivan, Margaret Marie	Va.	Swinney, James Grover Cleveland, Jr.	
B.S. 1944, Mississippi State Teachers		B.F.E. 1944, North Carolina State	
College		College of Agriculture and Engi-	
Sullivan, Michael Edgar	N.Y.	neering	Va.
Sullivan, Robert Edward	Nebr.		D.C.
Sullivan, Robert Maurice	D.C.	Swinson, Harriett Anne	
Sullivan, Ruby Lee	Tex.	Swinson, Mildred E.	
Summedlin, Virginia Vandergrift	D.C.	A.B. 1945, The George Washington	
Summers, Anne Theresa	Md.	University	W.Va.
Summers, Elson Morington	D.C.	Switzer, Gloria Constance	Tex.
Summers, George Ethan	D.C.	Switzer, Margaret Long	Ill.
A.B. 1942, Marshall College		Switzer, Walter Edwin	
Summers, Mary Jane	Ind.	M.S. 1941, University of Illinois	D.C.
Sunday, Elmer George, Jr.	Pa.	Switzko, Olga R.	D.C.
Surasky, Bernard Arthur	D.C.	Sworzyn, Marilyn Davis	
Sures, Allan Herbert	D.C.	A.B. 1943, Connecticut College	D.C.
A.B. 1940, B.S. 1942, The George		Sykes, Frances Elaine	Pa.
Washington University		Sykes, Malvina Yenger	Wyo.
Sures, Bebe	D.C.	Syme, Robert Haldane	
Sures, Ruth Ann	D.C.	B.S. 1945, University of Wyoming	N.Y.
Surine, Robert Travis	D.C.	Symes, John Thomas, Jr.	
Surowitz, Irma Selma	D.C.	A.B. 1941, Hamilton College	D.C.
Sussholz, Leonard B.	N.Y.	Symondo, Mildred Tyree	Va.
Sustrick, Anne	Colo.	Synan, Edith Kathryn	
Sutherland, Allan Arthur	Mont.	Synan, Isabelle G.	



Szadbo, Emery Julius B.S. in E.E. 1943, Fenn College	Ohio	Taylor, Dorothy Inez	D.C.
Szadokierski, Roland Stephen	Va.	Taylor, Elizabeth	Ind.
Szokolazy, Joseph Steven	N.J.	Taylor, Jack Howard	Tenn.
T			
Tabarini, Bernard B.A.E. 1945, Catholic University of America	N.J.	Taylor, James William B.S. 1937, Wilson Teachers College	D.C.
Taeves, Anne	Colo.	Taylor, Louis Eileen	Fla.
Taff, Charles B.S.S. 1937, College of the City of New York	D.C.	Taylor, Minnie Ardena A.B. 1941, Limestone College	S.C.
Taffet, Hana LL.B. 1939, Brooklyn Law School	N.Y.	Taylor, Muriel Jean	Md.
Tager, Esther JoAnne	Md.	Taylor, Robert Paul	D.C.
Taishaff, Miriam Lillian	Va.	Taylor, Stella B.L. 1914, University of California	Nebr.
Takatoski, Sam Masami	D.C.	Taylor, Thelma Ruth	Va.
Takala, William Arnold	Minn.	Taxman, William Perry	D.C.
Talbert, Betty Virginia	D.C.	Teagle, Ernest Howard, Jr.	D.C.
Talbert, Irene Sandy	D.C.	Teal, Gilbert Earle B.S. 1937, University of Maryland	Ga.
Talbot, Elizabeth Wilhemina	D.C.	Tebelen, H. Mennan	Turkey
Talley, Betty Jane	D.C.	Tebynried, Betty von Ockel	Brazil
Talley, Gird McDonald	D.C.	Tedder, Gladys Mae	D.C.
Tallman, Raymond James	D.C.	Tedder, Sarah Louise	Tenn.
Tamayo, Isabel Enriqueta	D.C.	Teeft, Evelyn Isabelle	Vt.
Tant, William Earl	Va.	Teeter, Keith Garten A.B. 1941, University of Texas	Tex.
Tarallo, Caesar Joseph	Mass.	Tejada, Alfredo	D.C.
Tarchiani, Dora L.-c.-l. 1944, Paris, France	Italy	Telshaw, Betty Jane	Pa.
Tarchiani, Letizia	Italy	Tennin, Adele	D.C.
Tarpley, Bernemary	D.C.	Temple, William Woods	D.C.
Tarpley, Gloria Swann	D.C.	Templeton, Katherine Louise	Ill.
Tarrant, William Theodore A.B. 1938, Stanford University	Calif.	Templeton, Kenneth Stuart, Jr.	Pa.
Tashjian, Arshalous Lucy	N.Y.	Templeton, Thomas Stoker	D.C.
Tashjian, Patricia Anne	Md.	Tenn, Bernard I.	D.C.
Tatke, Janette A.	Md.	Tennet, Wendell Creed A.B. 1944, West Virginia Wesleyan College	D.C.
Tato, Gudon Jordan B.S. 1942, The George Washington University	D.C.	Tennyson, Edna Gertrude	D.C.
Tassi, Ruth Rabko	Minn.	Tennyson, Irvine Alexander, Jr.	D.C.
Tassler, Sidney Adrienne	D.C.	Tennyson, Patricia Ann	D.C.
Tate, Edward Engram	Va.	Terce, Alice Patricia	D.C.
Tate, 1934, University of Virginia		Terkowski, Sylvester Adolf	Pa.
Tate, 1936, Virginia Theological Seminary		Tetami, Benedict	Md.
Tate, Marian Kaefer A.B. 1925, The George Washington University	Md.	Terrazas, Alfred B.S. 1941, College of Mines and Metallurgy, Tex.	Tex.
Tate, Thomas Rouse, Jr.	N.J.	Terry, Esther Tuttle B.S. 1937, Wilson Teachers College	D.C.
Tatum, Margaret Lee	Va.	Terry, George Mulford	Tex.
Tatum, Rachel B.	D.C.	Terry, John Haslet B.S. 1937, M.S. 1938, Rensselaer Polytechnic Institute	N.Y.
Tatum, Richard Vance	D.C.	Terry, Margaret Ann	D.C.
Taub, Edward Samuel A.B. 1936, University of Michigan	D.C.	Terry, Martha Ellender	D.C.
Tauslin, Valentine Marthe	D.C.	Terry, Mary Jeanette	Tex.
Tavener, Frank Brennan	D.C.	Tesh, Gardiner Lewis A.B. 1941, Catholic University of America	Va.
Tavener, Sarah Janney	D.C.	Teske, Elaine Theodora	Wis.
Tavormina, Peter Albert B.S. 1943, Polytechnic Institute of Brooklyn	N.Y.	Teske, Margaret Mary	Wis.
Taylor, Alexander Robert	D.C.	Tewinkel, Garret Carper B.S. in M.E. 1932, State College of Washington	Wash.
Taylor, Angel Newel	Md.	M.C.E. 1940, Syracuse University	Md.
Taylor, Charlotte Emily A.B. 1934, The George Washington University	D.C.	Tewksbury, Kathleen Willoughby	N.H.
Taylor, Clayton B.	Calif.	Thacher, Hazel B.S. 1945, University of New Hampshire	
Taylor, David Bruce	Md.	Thackberry, Gloria Ruth	Va.
Taylor, Donald Kent	Ill.	Thackberry, Mary Waynette	Va.
Taylor, Dorothy Gooding B.M. 1929, College of Charleston	S.C.	Thaler, Alfred Karl	Minn.
		Thaler, Anne Marie	D.C.
		Thames, Martha Ann	D.C.
		Thacher, Joan Mary	Va.

Thaw, Benjamin Dows	D.C.	Thompson, John Irvin, Jr.	N.C.
Thayer, Magnon Elizabeth	D.C.	Thompson, Joseph Fisher, Jr.	Va.
Thebault, Albert Robert	Md.	Thompson, Margaret Madeline	Va.
Theiss, Sylvester Ernest	Iowa	B.S. 1941, Mary Washington College	N.C.
Theiss, William Nelson	Tenn.	Thompson, Mary White	
Theobald, Frederick H.	Ky.	B.S.P.E. 1942, University of North Carolina	
Theophilus, Sophia Noble	D.C.	A.M. 1945, Columbia University	Wash.
Therrien, Shirley Elizabeth	Mass.	Thompson, Nellie Ellen	Va.
Thevenin, Esther Blanche	Iowa	Thompson, Russell Claude, Jr.	Iowa
Theys, Marcelle Joseph	Belgium	Thompson, Virginia Marie	D.C.
Thibadeau, Andrew Francis	D.C.	Thompson, William Blake	Ill.
Thiel, LaVerne Ralph	D.C.	Thompson, William Wayne, Jr.	D.C.
Thiele, Virginia Katherine	D.C.	Thompson, Winifred Grace	Mich.
Thielen, Phillip Marie	N.Y.	Thoms, Bert	D.C.
Therman, Sheppard Carl	N.Y.	Thomson, Elizabeth Van Auds	
Thompson, Roy Miller, Jr.	Va.	A.B. 1935, Swarthmore College	D.C.
Thomson, Benjamin Stuart	Va.	Thomson, Talmage Maiben	D.C.
B.S. 1934, Mary Washington College		Thorn, Patricia Alice	D.C.
Thomas, Alfred Richard	Va.	Thorn, Stewart	
B.S. 1943, Duke University		A.B. 1939, Swarthmore College	W.Va.
Thomas, Charles Grant	Miss.	Thornburn, Leland Wilson	
L.L.B. 1945, University of Mississippi		A.B. 1938, Marshall College	D.C.
Thomas, Donald Wayne	D.C.	Thorne, Charles Harry, Jr.	Va.
Thomas, Earl Griffith	Va.	Thorp, John Daniel	
Thomas, Emily Ida	D.C.	B.S. 1942, University of North Carolina	
Thomas, Ferns Bertram	Md.	I.A. 1943, Harvard Business School	D.C.
Thomas, Frederick Hendrix	D.C.	Thorpe, Stanley Clinton	
Thomas, Harold Arthur	Va.	B.S. in M.E. 1937, Michigan College of Mining and Technology	
Thomas, Harriette Isabel	Va.	LL.B. 1942, Wayne University	Iceland
Thomas, Howard Adams	Va.	Thors, Margaret Louise	Ind.
Thomas, Helen	D.C.	Thrall, Howard Curtis	Calif.
Thomas, Helen Cline	Va.	Throckmorton, Neville Juskeop, Jr.	D.C.
Thomas, Howell Garrone, Jr.	D.C.	Throne, J. Arthur	
Thomas, Jean Carlisle	D.C.	B.S. 1939, Milwaukee Teachers College	D.C.
Thomas, Jean Halliwell	Md.	Thurber, Emma Warren	D.C.
B.S. 1939, University of Pennsylvania		Thurston, Mary Ann	Va.
Thomas, Jesse	D.C.	Tibben, Elaine La Dona	D.C.
Thomas, John Benton	Del.	Tibbets, Robert Cash	Va.
Thomas, John James	Ind.	Tibbitt, Helen Lumpkin	N.C.
B.S. in Ed. M.S. in Ed. 1943, University of Idaho		Tickel, Jobe Carlton	Va.
Thomas, Malcolm Charles	D.C.	Tickel, William Secombe	
Thomas, Marie Katherine	D.C.	A.B. 1937, University of Chicago	Md.
A.B. 1944, University of Maryland		Tickett, Howard Ewan	Md.
Thomas, Mark Paulson	D.C.	Tidler, Harold Stanley	N.Y.
Thomas, Martha Jane	Va.	Tiedemann, Frank Henry	
Thomas, Mary Louise	Va.	B.B.A. 1943, College of the City of New York	D.C.
Thomas, Patrick Moses	W.Va.	Tierney, Edward Michael	
Thomas, Richard Ouden	D.C.	B.S. in Geol. 1917, Lehigh University	Conn.
Thomas, William Henry Baldwin	Mass.	Tierney, Martin Joseph	
Thompson, Adalena Ruth	Md.	B.S. 1936, Middlebury College	N.Y.
Thompson, Annie Audrey	S.C.	Tighe, John Francis	D.C.
Thompson, Betty Ann	Va.	Tilley, Roger B.	
Thompson, Cynthia Nell	Ohio	A.B. 1947, Colby College	D.C.
A.B. 1942, Oberlin College		Tillinghast, Edward Patterson, Jr.	Va.
Thompson, David Lathrop	Va.	Tilson, Paul Lambert	
Thompson, Edwin Strook	Pa.	B.S. 1948, M.S. 1939, Massachusetts Institute of Technology	D.C.
B.S. in C.E. 1933, Tri State College		Tilman, Rives Leonard	Ohio
A.B. 1943, Wellesley College	D.C.	B.S. 1943, University of Virginia	
Thompson, Elizabeth Anne	D.C.	Tilton, Charles Luce	Va.
Thompson, Florence Loupe	N.Y.	B.I.E. 1934, Ohio State University	D.C.
B.S. 1928, Elmira College		Timberlake, Lucie Compton	D.C.
Thompson, Frank Marion	Tenn.	Tinkelenberg, Albert David	Colo.
LL.B. 1949, The George Washington University		Tinkelenberg, William Richard	
Thompson, Geraldine	Oreg.	Tinaman, Betty Pauline	Colo.
Thompson, Harry Francis	Wis.	A.B. 1936, Indiana University	D.C.
Thompson, Ida Mae	Tenn.	Tinaman, Carl Severance	
Thompson, James Thomas	D.C.	Tinter, Lillian	
Thompson, Jo L.	Md.		
Thompson, John Fawdrey	N.H.		
B.S. 1947, United States Coast Guard Academy			

Tirado Colon, Joan	Puerto Rico	Tremblay, Paul Joseph	Canada
Tlachny, George Jacob	D.C.	A.B. 1936, LL.B. 1939, University of Montreal	
Tisdale, Jethro Davidson	D.C.	Trembley, Mary Hope	Maine
Tisinger, Jean Marie	D.C.	Trenkle, Robert Anthony	Ill.
Tissot, Marie U.	Ill.	Trent, William Franklin	Tenn.
To, Kuo-Chu	D.C.	LL.B. 1944, University of Tennessee	
Toal, John Wayne	Md.	Trevillian, Ann Jefferson	Md.
Toal, Vincent James	D.C.	Trevillian, Emily Buford	Md.
Tobey, Marjorie Elliott	N.Y.	Trevillian, John Barton	Md.
A.B. 1942, University of Rochester		Tritlett, Ruth Lillian Mary	Ohio
Tobias, Ida Jeaning	Ohio	Trigg, Frances A.	N.C.
Tobias, Marie Carol	Pa.	Trigg, Virginia Mae	N.C.
Tobin, Gerald Charles	Calif.	Tribbett, Robert Lott	Pa.
Tobin, Margaret Catherine	D.C.	B.S. 1943, Muskingum College	
A.B. 1935, Cornell University		Tribble, Mary Margaret	Okla.
Tobin, Ralph Maymons	D.C.	A.B. 1939, Oklahoma College for Women	
Todd, Doris Louise	Va.	Trimmer, Willie Dale Honeycutt	D.C.
Todd, Edna A.	Va.	B.E. 1949, Asheville Teachers College	
Todd, Jane Gertrude	Va.	Tip, Hope Hamilton	D.C.
Tolt, Bergit	Iowa	Trosba, Frank Joseph	Va.
Tolan, Alma Jean	D.C.	Trumbetta, Frank Joseph	Md.
Tolbert, Amelia Alpha	Tex.	B.S. in C.E. 1943, Georgia School of Technology	
Tollefsen, Evelyn Frances	D.C.	Troph, Leonard Adolph	N.Y.
Tolley, Adrian Barclay, Jr.	D.C.	Trappnell, Mary F.	D.C.
Tolliver, John Sheridan	D.C.	Trudinsky, Marion	D.C.
Tolmach, Mary Lee	D.C.	Truett, Bernard Eugene	Va.
Toni, Lela Sarah	D.C.	Trow, Sally Lou	Md.
Tomlinson, William Barrington	N.J.	Trowbridge, Betty Lou	D.C.
Tompson, Chairman Eitinger	Va.	Troxell, Marie Antoinette	
Torres, Maria Constanza	Va.	B.S. 1943, Georgetown University	Ill.
Torres, Martin Concha	D.C.	Tru, Lydia Millicent	
Torres, Arthur Herbert	D.C.	B Music 1944, Illinois Wesleyan University	
A.M. 1945, The George Washington University		Trucks, Elizabeth McWane	Va.
Torres, Robert Johns	Md.	Truesdell, Duane Earl	Wash.
Toszek, Milton	D.C.	B.S. 1943, University of Washington	
A.B. 1946, Brooklyn College		Truitt, Margaret	Mo.
Tost, Rose Lorella	D.C.	Truitt, Elizabeth W. B.	N.J.
Toukemon, Leif Oscar	D.C.	Truitt, Harriet Ned	D.C.
Torres, Margaret June	D.C.	Truitt, Bert Peter	Ind.
Torrence, Joseph Warren	D.C.	Truitt, Kwong Nyl	China
Torreson, Jeanne de Rochonnet	D.C.	Truitt, Mary Grace	Mass.
Totten, Isabel Ann	N.J.	Tucker, Elmer Russell	Va.
Totten, John Osborn, Jr.	N.J.	Tucker, Frank William	D.C.
Toupin, Claire Eloise	Canada	Tucker, Gene Stratton	Va.
Townsend, Eliza Carter	Ga.	Tucker, Harry Jackson	D.C.
B.S. 1943, University of Georgia		Tucker, Lenore	D.C.
Townsend, Vera Nachman	Va.	Tucker, Nancy Jane	N.C.
Townsend, Mary Adele	D.C.	Tucker, Ruth Naurice	Va.
Trane, Helen Elizabeth	D.C.	Tuffa, Robert Walrath	
Tracy, Elliott Raymond	D.C.	A.B. 1940, Oberlin College	
Tracy, Thomas John	Va.	A.M. 1941, Fletcher School of Law and Diplomacy	Ill.
Tracy, Lena	D.C.	Tullar, Irving M., Jr.	
Traser, Mabel Oskey	Wis.	A.B. 1928, Albion College	D.C.
Trattner, Emil	D.C.	Tung, I-Jou	D.C.
Travaglini, Vincent D.	Va.	Tapman, Elizabeth Spencer	Va.
Travelstead, Charles Eugene	Ill.	Turberville, Alice Atwill	
Travis, Dorothy Frances	Md.	A.B. in Ed. 1941, Mary Washington College	
B.S. 1945, The George Washington University		Turchen, Roy	Wis.
Travis, Jane Carol	N.Y.	Turchie, Julie	Va.
A.B. 1943, Marietta College		Tutshall, Jean Frances	N.Y.
Travis, Opal Lambert	Miss	Turnbull, Jenny Emsley	Md.
Traylor, Lawrence Milton	D.C.	A.M. 1930, Columbia University	
Traylor, Muneta Pearl	Ga.	Turnbull, Yvonne H.	Iowa
Treacy, Mary Catherine	Md.	Turner, Barbara June	Va.
Trees, Jack Ragland	Tex.	Turner, Caroline Embry	D.C.
Treichler, Howard Pettit	N.Y.		
Trenbly, Gertrude Marie	Canada		
Tremblay, Marie Paul	Canada		

\* Deceased.



Turner, Daisy Griffin	S.C.	Van Advard, Evert	D.C.
Turner, Mary Joy	S.C.	Van Allen, Roland Louis	Va.
Turner, Mary Lucille	Mo.	Van Atta, Glen Benjamin	Ohio
Turner, Myrtle Hearns	D.C.	Vance, Harrell Taylor, Jr.	Ala.
Turner, Netta Elizabeth	D.C.	A.B. 1945, The George Washington University	
Turner, Virginia Fleetwood	Va.		Md.
Turney, Joanne	Va.	Vance, John Thomas	N.Y.
Turney, William O'Neill	Va.	Van Dam, Henry	
Turnquist, Ruth E. C.	Minn.	Drs. at Law, 1939, University of Amsterdam	D.C.
Tutorow, Harriet Rutha	D.C.	Vandergrift, John Leslie, Jr.	Va.
Tutorow, Edward A.	Va.	Vanderplank, Fredric Mason	D.C.
A.B. 1942, The George Washington University		Vanderpol, Jack	Va.
Tusing, Thomas William	Va.	Van Derzee, John William	
B.S. 1943, The George Washington University		B.S. in C.E. 1938, Northeastern University	Conn.
Tutwiler, Frank Bryan	Md.	Van de Velde, Louis du Rest	
B.S. 1944, The George Washington University		A.B. 1937, Princeton University	Fla.
Tway, Lawrence Edward	Calif.	Van de Water, Malcolm Stickler	D.C.
Tyler, Carolyn Miller	Va.	Vandoren, Patricia Anne	Pa.
B.S. 1943, Albright College		Van Etten, James Paul	
Tymeson, Dick Crowley	Iowa	B.S. 1943, United States Coast Guard Academy	D.C.
Tyson, Clifford Wayne	D.C.	Van Gelderen, Bertha Elizabeth	Ohio
A.B. 1941, The George Washington University		Van Gombos, Catherine Mary	Ohio
Tyson, Jean Carol	Fla.	Van Keuren, Marie Steele	Va.
Tzarnes, Anne	D.C.	Van Meter, William Garrett	Md.
Tzarnes, Christ C.	D.C.	Van Natla, Kathryn Shelton	
		B.S. in Ed. 1954, Central Missouri State Teachers College	D.C.
		Van Neste, Walter Lane	D.C.
		Vann, Selma	Mo.
		Vannice, Jeanette	Va.
		Van Pelt, Roderick George	W.Va.
		Van Sant, William Lawrence	The Netherlands
		Van Staveren, Johanna B.	D.C.
		Van Story, Elois Peterson	D.C.
		Van Vechten, Courtlandt C.	
		A.B. 1939, A.M. 1930, University of Michigan	
		Ph.D. 1935, University of Chicago	D.C.
		Van Vranken, Carolyn Beth	D.C.
		Van Yuga, John	Ky.
		Vanzandt, Juanita Seay	Calif.
		Varga, Emery Elmer	
		B.S.F. 1937, University of Southern California	D.C.
		Vargas, Mary Ann	D.C.
		Varkala, Joseph Clarence	
		A.B. 1935, A.M. 1936, University of Chicago	N.J.
		Varney, Geraldine Marcia	D.C.
		Varney, John Michel	D.C.
		Varoutsos, Paul George	D.C.
		Varoutsos, Perry	N.Y.
		Varrati, Gilda Elvira	Pa.
		A.B. 1941, Hunter College	D.C.
		Vasko, Margaret Louise	Va.
		Vass, George Oakley	
		Vassar, Reginald Levi	
		B.S. Agri. Engr. 1941, Virginia Polytechnic Institute	Va.
		Vaughan, Donald Yallon	D.C.
		Vaughan, James Morris	
		A.B. 1942, Iowa State Teachers College	
		Vaughan, Marion Hart	D.C.
		Vaughan, Nellie Elizabeth	N.J.
		Vaughn, Marthada June	Wash.
		Vaughn, Victor Armand	Mo.
		Vaughn, Virginia Vivian	S.C.
		Vaughn, Walter George	Md.
		Veily, George Grover	

## U

Ubinas, Roberto Natano	Puerto Rico
Ubben, Lucite, Emma	Iowa
Uffelman, Karl Frederick	Pa.
Uhthoff, Grace Virginia	N.Y.
A.B. 1944, Hunter College	
Ulasak, Henry Thomas	D.C.
Uleisman, Helen	Pa.
Ullman, Ruth Sherie	Va.
Ullom, Laura Alma	Va.
Ulmer, Melville V.	
B.S. 1937, A.M. 1938, New York University	
Umar, Yassin	D.C.
A.B. 1944, The George Washington University	
Umstead, Lyman John	Pa.
Unger, Howard Robert	D.C.
Upham, John Dale	Va.
B.S. 1936, University of Oklahoma	
Utterback, Leo L.	D.C.

## V

Vaca, Fernando Jose	Bolivia
Vaccaro, Camillo Jimmie, Jr.	D.C.
Vache, Barbara Marie	Ohio
Valadie, Sara Stewart	Miss.
Valaer, Peter John	D.C.
B.S. 1936, University of Maryland	
Valentine, Alberta Enderle	D.C.
A.B. 1945, The George Washington University	
Valentine, Anne Margaret	D.C.
Valentino, Joseph Peter	N.Y.
B.S. in C.E. 1938, Alabama Polytechnic Institute	
Valentino, Joseph Ralph	N.J.
A.B. 1937, Bucknell University	
Valentio, Grace J.	D.C.
Valenzi, Louise Mary	N.Y.
Vallerino, Hilda Isabel	D.C.

Velasco, J. Manuel	D.C.	Vosbeck, Francis Joseph	D.C.
Vellmer, M. Lois	Conn.	Votaw, Katherine Madden	Tex.
Vence, Eve Marie	Va.	Vrahiotes, Helen	D.C.
Vencill, Genevieve	Md.	A.B. 1944, The George Washington University	
Veno, Esther Genevieve	Mont.	Vrettos, Louis	Mass.
Vensas, Constantino Vincent	D.C.		
Vera, Melecio Guzman	D.C.		
Vargara, Pedro V.	D.C.	W	
A.B. 1941, A.M. 1934, University of California			
Vermillion, Betty Jean	Fla.	Waag, Agnes B.	N.D.
Vernier, Vernon George	Ill.	B.S. 1911, University of North Dakota	
Vernoff, Samuel	N.Y.	Waddell, Jack L. Parker	Md.
Verry, Earlean Ethel	Oreg.	Wadden, Edwina Pou	D.C.
Verey, Edith Louise	Oreg.	Wade, John	D.C.
Vesamas, Karja Kyllikki	D.C.	Wade, Pearson	D.C.
Vetter, Melita Imelda	Md.	Wade, Richard Rudolph	D.C.
Veverka, Mary Roberta	D.C.	Wade, Thomas Ray	Mo.
Vicino, Dominic Joseph	D.C.	Waggonheim, Zelik	D.C.
Vick, Frances Ethel	Ala.	Wager, Albert Leslie	Va.
Vidos, Mary Anna	D.C.	Wagner, Margaret Katherine	D.C.
Vigas, Mary Marguerite	Va.	Wagner, Evelyn Lucille	D.C.
Viele, Martha	D.C.	Wagner, Harriet Carolyn	D.C.
Vien, Margaret Rose	Mo.	Wagner, Irving I.	N.Y.
Vieness, Helen Anne	D.C.	Wagner, Joyce	Va.
Viken, Henry Courtland	Minn.	Wahl, Richard Albert	Va.
Villiers, Oscar Milton	Wis.	B.S. 1934, University of Wyoming	
Vincent, Arthur Graham	D.C.	Walters, Stephanie Hilcher	N.J.
Vincent, Frank Donald	Oreg.	Wabel, Grace Thersera	D.C.
A.B. 1943, Reed College		A.B. 1944, The College of St. Catherine	
Vincent, Mary Ellen	D.C.	Waide, S. Elizabeth	Miss.
Vinci, Carolyn	Conn.	Waits, Betty	D.C.
Viner, Robert Lee	D.C.	Waits, John Virgil, Jr.	D.C.
A.B. 1943, Williams College		Wald, Sidney	
Vinok, Jack	Fla.	A.B. 1945, University of Pittsburgh	
Vincent, Margaret Sara	D.C.	Walden, Mary Sanders	Ohio
Vincent, Rupert Alan	Va.	Waldron, Mattie Alice	Va.
Vineira, Grace Nancy	D.C.	Wiles, Maunida Sue	Va.
Vinga, Elizabeth Cathar	Md.	Wiles, Robert Oliver	Md.
Vinson, Arthur Robert	Ohio	Walinsky, Edward P.	Pa.
Vintaiter, Anne Benedicta	Pa.	Walker, Alice Elaine	Md.
Vin, Minnie Jennie	Ill.	Walker, Ann	Md.
Ph.B. 1943, Northwestern University		A.B. 1945, Duke University	
Vivari, Joseph	Conn.	Walker, Dorothy Grace	Ark.
Vize, Alma Roscoe	Wash.	Walker, Eleanor	D.C.
A.B. 1941, The George Washington University		B.S. 1917, Wilson Teachers College	
Vlaton, Maria	Ill.	Walker, Emile Jones	D.C.
Vliet, Mary Louise	Va.	Walker, Frederick Lyle	D.C.
Vloodman, Derek Andrew, Jr.	Ill.	Walker, Frieda	D.C.
Vogel, Elizabeth Lucille	Va.	Walker, Mary Caroline	Md.
Vogel, Seymour	N.Y.	Walker, Paul Howard	Miss.
Vost, Julian W.	D.C.	Walker, Richard Kenneth	D.C.
A.B. 1941, University of California		Walker, Robert Williams	Okla.
Voit, Alice I.	Md.	Walker, Twila Faye	Va.
Volker, Dorothy Louise	Va.	Walkinsaw, Walter	Wash.
Volkert, Lois Winifred	D.C.	A.B. 1919, University of Washington	
Volland, Edward Louis	Md.	Wallace, Dorothy June	Minn.
Volland, Robert Joseph	Md.	Wallace, Hubert Edwin	Md.
Vollberg, Lorraine Beale	D.C.	Wallace, Irene Taylor	Miss.
Vollmer, Merwin Richard	Tex.	Wallace, Kathryn Josephine	Tenn.
A.B. 1942, Texas College of Arts and Industries		A.B. 1937, University of Tennessee	
Vollpel, Jack C.	Ill.	Wallace, Kathryn Marie	D.C.
Voloshin, Tamara Paula	D.C.	Wallack, Charles Frank	D.C.
Volz, Mary E.	Md.	Waller, Aline Naisky	Md.
Voneipp, John Dunbar	N.Y.	A.B. 1941, Smith College	
Von Kummer, Samuel Miller	Va.	Waller, Jean McCammon	D.C.
Von Lubken, Philip	Calif.	Wallerstein, David Daniel	N.Y.
A.B. 1927, Whitman College		Wallis, James Frederick	Mich.
A.M. 1911, Stanford University		B.S. 1942, Wayne University	
Voorhis, Jean B.	Va.	Wallis, Richard Fisher	D.C.
A.B. 1941, Radcliffe College		B.S. 1945, The George Washington University	

Walmeley, Marion Christine	Calif.	Wasserman, Manie	D.C.
Walsh, Adine Marie	D.C.	A.B. 1945, Bryn Mawr College	D.C.
Walsh, Elizabeth Marie	N.Y.	Wasson, Elaine Joyce	
Walsh, Helen Frances	D.C.	B.S. 1941, Wilson Teachers College	D.C.
Walsh, Lillian Mary	D.C.	Wastie, Warren Edward, Jr.	D.C.
Walsh, Stella Mary	Va.	Waters, John Russell	Va.
Walsh, Thomas Fanning	D.C.	Waters, Viola Vivienne	D.C.
Walsh, William F.	D.C.	Watkins, Betty Lou	Ohio
B.S. in F.S. 1946, Georgetown University		Watkins, Cameron Dalton	
Walstrom, Charles Bowen	Va.	A.B. 1942, Youngstown College	Ill.
A.B. 1940, The George Washington University		Watkins, Cynthia Camp	D.C.
Walter, Betty Lee	Va.	Watkins, Esther Monan	Ten.
Walters, Joyce Crickmay	D.C.	Watkins, Harman Luther	
Walton, Alfred Curtis, Jr.	D.C.	B.S. in Comm. 1937, LL.B. 1939, Southern Methodist University	
Walton, Howard Bryant	Md.	LL.M. 1942, Georgetown University	D.C.
Walton, Maude Saunders	Fla.	Watkins, James Edward	D.C.
Walton, Thomas Snyder	Utah	Watkins, Margaret Louise	D.C.
B.S. 1945, The George Washington University		Watkins, Mary Elizabeth	D.C.
Wamsley, Mary Stuart	Va.	Watkins, Neva Cynthia	Ark.
A.B. 1944, Farmville State Teachers College, Va.		Watkins, Ralph Armstead, Jr.	D.C.
Wang, Ia	D.C.	Watkins, William Otis	Pa.
Wang, Sze Jen	Md.	Watson, Bruce Parish	D.C.
Wannack, Theodora A.	Ill.	Watson, Dorothy Pearl	D.C.
Wannametta, Pham	Siam	Watson, Ellen Virginia	Mass.
Warbritton, Eleanor Lucille	Ind.	Watson, John William	
Ward, Ada Smith	D.C.	A.B. 1931, Tufts College	Iowa
A.B. 1945, Colorado College		LL.B. 1936, Boston University	
Ward, Edward Francis	D.C.	Watson, Kenneth Marshall	Wash.
Ward, Frank Edward	D.C.	B.S. 1944, Iowa State College	Ind.
Ward, John Taylor, Jr.	Va.	Watson, Patricia Ann	
Ward, Kathryn M. Painter	D.C.	Watson, Ralph E.	
A.B. 1944, A.M. 1936, The George Washington University		A.B. 1944, The George Washington University	
Ward, Mary Agnes	Mich.	Watson, Thomas John	Wash.
Ward, Mary Payne	Va.	Watt, Betty Jane	D.C.
Ward, Mildred Mary Edna	Va.	Watters, Jane Elizabeth	W.Va.
Ward, Neona Bienert	Mo.	Watterson, Clark Callister	Utah
Wareham, George B.	Ohio	Watterson, Constance Jewell	D.C.
A.B. 1933, College of Wooster		Watts, Evelyn Frances	D.C.
A.M. 1941, Ohio State University		Watts, Jacqueline Knott	Md.
Warfel, Robert James	D.C.	Watts, Margaret Louise	N.Y.
Warfield, Marion Dixon	D.C.	Warberg, Joseph E.	D.C.
Warfield, Richard Myers	Md.	Wayt, Frederick Willis	D.C.
Waring, Henry Thomas	Md.	Weare, George Cabot	
Warmack, William Davies	D.C.	Weare, Josephine Wilma	D.C.
Warne, Frederick Parsons	N.Y.	A.B. 1942, University of Maryland	Md.
A.B. 1936, Dartmouth College		Weast, Ruth Mary	N.C.
LL.B. 1941, Harvard University		Weatherly, Joseph S., Jr.	
Warner, Ethel Louise	D.C.	Weathers, Pearl Amelia	D.C.
Warner, Glenn Allyn	Wash.	A.B. 1943, Greensboro College	Mich.
Warner, Thomas William	D.C.	Weathersbee, Frank Burkhead, Jr.	Mass.
A.B. 1941, La Salle College		Weaver, Frank Lloyd, Jr.	Md.
B.S. in L.S. 1944, Drexel Institute of Technology		Weaver, Kenneth Donald	D.C.
Warner, William Oliver	D.C.	Weaver, Preston R.	D.C.
Warren, Dolphus King	D.C.	Weaver, Rosemary Joiner	D.C.
Warren, John Wayne	Kans.	Webb, Angeline	La.
A.B. 1941, Washburn College		Webb, Earl Filmore, Jr.	Calif.
Warren, Leicester	D.C.	Webb, James Provost	
Warren, Virginia Nesbitt	Va.	Webb, Margaret	
Warrender, Robert Thomas	Pa.	A.B. 1942, A.M. 1944, University of California	Okla.
Washburn, Carleton Thompson	Va.	Webb, Marie Virginia	Conn.
Washburn, Edward Garcia	Calif.	Webb, Richard William	D.C.
Washington, Dorothy Anne	D.C.	Webb, Ruth Kincer	D.C.
Washington, Fielding Lewis	Va.	A.B. 1933, A.M. 1936, The George Washington University	Pa.
Wasikiri, Luckhi	Siam	Webber, Barbara Anne	Fla.
A.B. 1944, University of Morals and Political Sciences, Siam		Webber, Ruth Rebecca	Ga.
Wasser, Frances	D.C.	Weber, Charles John, Jr.	Iowa
		Weber, George Russell	
		B.S. 1935, University of Missouri	
		Ph.D. 1940, Iowa State College	



Weber, Helen Farnsworth Lawson	Va.	Wells, Edward Wesley	Ohio
Weber, Jacqueline Adams	Md.	A.B. 1947, University of Toledo	
Weber, Joseph	D.C.	Wells, Elizabeth Dorothea	Md.
B.S. 1940, United States Naval Academy		Wells, Glenn Sherman	Va.
Weber, Martin	Pa.	Wells, Lewis G.	W Va.
Weber, Myrtle Ann	D.C.	Wells, Lola Margaret	Tex.
Webster, Frances Lee	W Va.	B.S. 1942, John Brown University	
Webster, John M.	Minn.	Wells, Maxine A.	Wash.
B.S. 1942, University of Minnesota		Wells, Willie Lucille	Miss.
Weckerhine, Jacqueline Houston	Va.	Wells, Catherine Elizabeth	Md.
Wedgeworth, Orl F.	Ala.	Wells, Mary E.	Wyo.
B.S. 1947, George Peabody College for Teachers		Wells, Harvey Albert	Md.
Weeden, Henry Gregory	D.C.	Wells, Ruth Agnew	D.C.
Weeks, Gladys Evelyn	D.C.	Wen, Patrick H.	Chas.
Weer, Joseph Harold	D.C.	B.S. 1944, Virginia Military Institute	D.C.
Weer, Luc Esther M.	Va.	Wendell, Elizabeth Mary	Md.
Weether, Betty	Va.	Wendt, Carolyn Mae	D.C.
Wehr, Maurice Burton	Md.	Wenger, Edward George	D.C.
Weikel, Joanne Mosley	Pa.	Wenley, Robert Mark	D.C.
A.B. 1944, Smith College		Wentworth, Eleanor Elizabeth	Mass.
Weil, Gerard Gordon	N.Y.	B.S. 1941, Massachusetts State College	Ohio
Weinert, Lottie Ruth	D.C.	Wenzel, Helen Marie	D.C.
Weimer, Ruth Maurine	Tex.	Werkow, Stanley Newman	D.C.
Weinberg, Joan Claire	N.Y.	Werlich, Robert O'Donnell	Tex.
Weiner, Alvin J.	D.C.	Werner, Dorothy Louise	N.Y.
LL.B. 1939, University of Baltimore		Werner, Seymour	
Weiner, Clarence M.	D.C.	A.B. 1943, The George Washington University	
A.B. A.M. 1938, University of Wisconsin		Wernick, Marie King	Va.
Weiner, Leon	N.Y.	Wertenbruch, Mary Claire	D.C.
Weinstein, Beatrice	D.C.	Wernheim, David S.	Va.
Weinstein, Harvey Harold	D.C.	Wertkin, Edward	Pa.
Weinstein, Max	D.C.	B.S. 1938, University of Pittsburgh	Mass.
Weinstein, Rera Louise	D.C.	West, Eleanor T.	S.C.
Weir, John Dallizelle	Ohio	West, John Carl	
Weise, Ernest Lyman	Pa.	A.B. 1942, The Citadel	D.C.
B.S. 1948, The George Washington University	D.C.	West, Robert Layton	Md.
Weisenburger, Faye Daileen	D.C.	West, Robert Wilcox	Cann.
Weiser, Peter Byron	N.Y.	West, Vincent	
A.B. 1940, Hofstra College		A.B. 1949, Amherst College	N.Y.
Weisberber, Louise Gertrude	D.C.	Westbrook, Robert Joseph	D.C.
Weisman, Helen	Pa.	Westbrook, William Hughes	Va.
Weiss, Irving	Va.	Wester, Peter Homer	Va.
LL.B. 1936, LL.M. 1937, St. Lawrence University		Westerman, George Frederick	
A.B. 1945, The George Washington University		B.S. in F.E. 1939, University of Wisconsin	D.C.
Weiss, Jeanne Carolyn	D.C.	Westfall, John Finley	Md.
Weiss, Malcolm Pickett	D.C.	Weston, Dorcas Elizabeth	Mass.
Weiss, Phyllis Mary	Pa.	Weston, Mary Katherine	Md.
Weiss, Rowena	N.Y.	Wetherbee, Fairland Henry	D.C.
Weiss, William	D.C.	Westmore, William Furdies, Jr.	D.C.
Weiss, pf Vera Jordan	D.C.	Whitaker, Edythe Joan	D.C.
Weitzel, Elizabeth Marcena	Va.	Wheeler, Arthur Adrian	Va.
Welch, Walter William	Pa.	Wheeler, Cornelia Balch	D.C.
A.B. 1945, The George Washington University	N.Y.	Wheeler, Ford William	D.C.
Welch, Willie Timothy	D.C.	Wheeler, Fred Willis	D.C.
Wellen, Marcus Richard	Pa.	Wheeler, Helen B.	D.C.
Wellins, Fenne Noble	Va.	Wheeler, Katherine Ethel	Conn.
Wellins, Richard Marshall	D.C.	Wheeler, Mary Starr	
LL.B. 1949, University of Virginia		A.B. 1946, Wellesley College	D.C.
Wellington, Peretz	D.C.	Wheeler, Robert Prentiss	
Wells, Wayne Eugene	D.C.	A.B. 1942, University of California	D.C.
Wells, Alfred Washburn	D.C.	Wheeler, Ruth Elizabeth	D.C.
A.B. 1919, Yale University		Wheeler, William Alson	Va.
Wells, Barbara Jane	D.C.	Wheeler, Martin Cochran	D.C.
Wells, Clinton Fisk, Jr.	D.C.	Whelton, Richard Lee	
Wells, Edmund John, Jr.	D.C.	B.S. 1945, University of Maryland	Nebr.
		Wherry, Marilyn	Tex.
		Whidden, Louis Isabel	
		A.B. 1945, University of Texas	Md.
		Whisman, Lloyd Thomas, Jr.	N.Y.
		Whitaker, Francis Hunter	D.C.
		Whitaker, Gloria	

Whitaker, June Lois	D.C.	Wicks, Celia	D.C.
Whitaker, Meade	N.C.	Wicks, Regina Ruth	D.C.
A.B. 1940, Yale University		Wiczer, Max A.	D.C.
Whitaker, Scott Merrill	Calif.	Widinayer, Clara Louise	Colo.
Whitby, Louise	Nev.	Widman, Frank Lisbe	
White, Allan Wesley	D.C.	B.J. 1939, University of Missouri	D.C.
White, Barbara Nell	Ky.	Widmer, Ruth	Va.
White, Byran Raymond	Colo.	Widoff, Kingdon George	
A.B. 1938, University of Colorado		E.E. 1931, Rensselaer Polytechnic Institute	
White, Donald L.	Md.	Wiechers, Diego Luna	Mexico
B.S. 1944, The George Washington University		Wiechers, Luciano Luna	Mexico
White, Edith Mary	Va.	Wieder, Gerald S.	N.Y.
White, Edwin Dean, Jr.	Va.	A.B. 1936, Brooklyn College	Md.
White, Emma Preston	D.C.	Wiedrich, Betty Jeanne	
White, Frances Edith	D.C.	B.S. 1945, University of Pittsburgh	Pa.
White, Gertrude P.	Va.	Wiedwald, William Joseph	Va.
White, Harold Edward	Utah	Wieland, John A.	Conn.
A.B. 1941, University of Utah		Wieler, Edward William	Va.
White, Hazel Frances	Va.	Wierman, Nancy Kindon	N.Y.
White, Ida Marguerite	Va.	Wierzbowski, John Emanuel	
White, James Walter	Va.	B.S. 1940, Canisius College	Wis.
White, Jeanne McKinley	D.C.	Wiesenmyer, Freda Frances	N.Y.
White, John Anderson	D.C.	Wigder, Philon	
A.B. 1942, William Jewell College		B.S.S. 1940, College of the City of New York	N.Y.
White, Kenneth Woodward	D.C.	Wiggins, Ronald Luther	
White, Lee Thomas	Md.	B. of Adm. Eng. 1938, M.S. 1940, Syracuse University	Md.
White, Marian Virginia	Va.	Wight, Virginia Van Wijnkoop	Va.
White, Mark Sherman, Jr.	Md.	Wight, William Leeds	Pa.
B.S. in Pharm. 1943, Duquesne University		Wignall, Herbert	Tex.
White, Philip Taylor	Ohio	Wihner, Barbara Ann	D.C.
White, Phillip K.	Ohio	Wilamowski, Edward Joseph	Pa.
White, Phyllis	D.C.	Wilbar, M. Margaret	Miss.
White, Roscoe Conklin	N.C.	Wilbourn, Anne Moseley	
White, Ruth	N.Y.	A.B. 1925, Randolph-Macon Woman's College	D.C.
White, Sidney Edward	Mass.	Wilbur, Newton Clarence	Md.
B.S. 1939, Tufts College		Wilcox, James Churchill	D.C.
A.M. 1942, Harvard University		Wilcox, Robert Lynn	N.Y.
Whitesell, Harry Sellers	D.C.	Wilding, Charles Howard	D.C.
A.B. 1938, A.M. 1940, The George Washington University		Wiles, Marie Agnes	Ga.
Whitfield, Anna Louise	D.C.	Wiley, William Warner, Jr.	Wis.
Whiting, Eleanor Marjorie	Minn.	Willford, Richard Roscoe	Va.
B.E. 1933, St. Cloud State Teachers College, Minn.		A.B. 1942, Beloit College	N.P.
B.S. 1939, University of Minnesota		Willford, Walter Herbert	D.C.
Whiting, Katherine Washburn	Va.	Wilhelm, Paul Joseph	Md.
Whiting, Louise Tiffany	Tex.	Wilkerson, Abner Lee	Pa.
Whiting, Stuart Shaw	Va.	Wilkerson, John Krantz, Jr.	Va.
Whitley, Betty	D.C.	Wilkes, Carolyn Moore	D.C.
Whitley, Clyde Efrid	D.C.	Wilkins, Charles Ewan	Va.
Whitley, Diana Constance	D.C.	Wilkins, Elizabeth Ann	Pa.
Whitlock, James Monroe	Tex.	Wilkins, Elizabeth Yount	D.C.
B.S. 1941, Madison College		Wilkins, Ernest J.	
Whitlock, Mollie Brazel	Va.	Wilkins, Leah Woods	
B.S. 1942, University of Virginia		A.B. 1943, The George Washington University	Md.
Whitlow, Nancy Elizabeth	Va.	Wilkins, Verna Moody	
Whitmore, Betty Allnutt	Md.	A.B. 1927, Bessie Tift College	N.C.
Whitmore, Jane Frances	Md.	Wilkins, William Yarbrough, Jr.	
Whitmoyer, Robert Ellwood	Pa.	B.S. 1917, University of North Carolina	
Whitnack, John Doyle	Minn.	Wilkinson, Richard Sterling	D.C.
Whitney, Inez Schneider	Va.	Willard, Abby Hooker	D.C.
A.B. 1940, Teachers College, Weatherford, Okla.		Willcher, Arthur L.	D.C.
Whitney, Richard Walker	Mass.	Williams, Allen George, Jr.	N.C.
A.B. 1942, University of Maine		Williams, Ben Forrest	D.C.
Whitt, Gordon Alfred	D.C.	Williams, Betty Lee	Pa.
Whyte, Rosalie Ann	D.C.	Williams, Claire G.	Mich.
Wiechers, Edward Hopkins	D.C.	Williams, Cynthia Ann	
Wick, JoAnn Smith	D.C.	Williams, David Rhys	
Wicker, Elizabeth Flora	Mich.		
Wickre, Paul David	S.D.		

Williams, Don Armstrong	Va.	Wilman, Audrey June	N.D.
B.S. 1931, Denver University		Wilson, Andrew John	N.Y.
Williams, Doris	D.C.	Wilson, Betty Map	Kans.
B.S. 1928, New York State College for Teachers		A.B. 1944, University of Wisconsin	Mass.
Williams, Dorothy Alice	Va.	Wilson, Christine Shearer	Vt.
A.B. 1945, University of Alabama		Wilson, Creta Christine	Va.
Williams, Dorothy Goodwin	D.C.	Wilson, Dora Beryl	Ill.
Williams, Edith Louise	Va.	Wilson, Elizabeth Anne	D.C.
Williams, Ellen Leslee	D.C.	Wilson, Eula Louise	D.C.
Williams, Elma	D.C.	Wilson, Frederick Griswold	Miss.
Williams, Frank Evans, Jr.	Va.	Wilson, Grace Cunard	Ind.
Williams, Frank Hughes	N.Y.	Wilson, Harold Maurice	D.C.
Williams, Gerald Albert	Iowa	Wilson, Helen Julia	Canada
B.S. 1945, South Dakota State College of Agriculture and Mechanic Arts		Wilson, Helen Kerr	Iowa
Williams, Harry Lawrence	Mich.	Wilson, James Henderson	D.C.
Williams, I. D.	Tex.	Wilson, John Ed. Jr.	D.C.
Williams, James Turner	D.C.	Wilson, John T.	D.C.
Williams, John Otto	D.C.	A.M. 1942, State University of Iowa	
Williams, Margaret Lucretia	N.J.	Wilson, Joyce Marguerite	Ill.
Williams, Mary Marguerite	D.C.	Wilson, Maryan	D.C.
Williams, Michele	D.C.	Wilson, Melissa Forsyth	Fla.
Williams, Morrison Patton	N.C.	Wilson, Nina Saylor	D.C.
Williams, Norma Kathryn	N.C.	Wilson, Paul Randolph	D.C.
A.B. 1942, East Carolina Teachers College, Greenville, North Carolina		Wilson, Percival	Md.
Williams, Oval Denver	D.C.	Wilson, Roy Kenneth	Ill.
Williams, Patricia Ruth	Va.	B.E. 1936, Eastern Illinois State Teachers College	
Williams, Robert Cyrus	Conn.	A.M. 1941, University of Illinois	D.C.
Williams, Robert Richter	D.C.	Wilson, Vera Hooker	N.C.
Williams, Rulla Ward	Ill.	Wilson, Viola Marie	Md.
Williams, Sarah Virginia	Tenn.	Wilson, Virginia	Tenn.
B.S. 1945, East Tennessee State Teachers College		Wilson, Wallace Ancil	Maine
A.M. 1944, Vanderbilt University		Wilson, Francis William	Md.
Williams, Theodore Gales	Pa.	Wimbrow, Charles Franklin	Ohio
Williams, Warren Edward	Md.	Wilson, Dora Louise	Va.
Williams, Wilfred Stanton	Calif.	Wilson, Dorothy Druxilla	D.C.
B.F.S. 1947, University of Southern California		Wineland, Robert Kenneth	Md.
Williams, William Edward	Md.	Wines, Jackson James	D.C.
A.B. 1944, Western Maryland College		Winfrey, Jane	Wis.
Williamson, Barbara Janet	D.C.	Winger, Audrey Doris	
Williamson, Clifton Russell	D.C.	A.B. 1947, Wisconsin University	Mo.
Williamson, Edward	Mass.	Winger, Inez Byers	
A.B. 1925, Harvard University		B.E. 1917, Elizabethtown College	D.C.
I.L.B. 1925, Washash College	Calif.	Winger, Nelson Edward	Va.
Williamson, John George	D.C.	Wings, Lydia Holthrop	
Williamson, Lois Lo-Fella	Va.	B.S. 1942, University of Virginia	S.C.
Williamson, Norman Francis	D.C.	Winn, Ethel B.	N.Y.
Williamson, Rhea White	Va.	Winn, Edward Blanchard	
Willis, Benjamin Coppage	Tex.	B.S. 1911, United States Coast Guard Academy	
Willis, Clara M.	D.C.	Winton, Danna	D.C.
B.S. 1945, University of Virginia	D.C.	Winton, Frances Shirley	Md.
Willis, Claude Edward, Jr.	Va.	Winter, Eason Pefer	D.C.
M.E. 1942, The George Washington University		B.S. 1942, Iowa State University	
Willis, Doris Ruth	D.C.	M.S. 1944, Colorado State University	Iowa
Willis, Earl Thomas	D.C.	Winter, Mary Ellen	D.C.
A.B. 1941, Washington College		Winter, Rose Philomena	Md.
A.M. 1926, Columbia University		Winter, Violet Elizabeth	
Willis, Ethel Jackson	Ia	A.B. 1928, The George Washington University	D.C.
Willis, Harry Everett	Iowa	Winterfield, Mary Margaret	Va.
Willis, Jean Hope	D.C.	Winter, Mary Elizabeth	Va.
Willis, John William	Va.	Wist, Henrietta M R	Va.
A.B. 1944, I.L.B. 1947, University of California at Los Angeles		Wise, Forrest Henry	Kans.
Willie, Walter Cruise	D.C.	Wise, Ida Elvora	D.C.
Wilson, Mary Virginia	D.C.	Wise, William Simpson	Mo.
B.S. 1935, Mary Washington College	D.C.	Wiseman, John Henry	
		B.S. in Ed. 1947, Missouri State Teachers College	
		Wiser, Winifred Ruth	Mich.
		Wisnaty, Vera Teressa	Md.



Witcover, Henry Wallace	S.C.	Wood, Stella Draper	Ind.
A.B. 1936, Duke University		Wood, Walter Henderson	Ind.
A.M. 1937, The George Washington		Woodall, Lois Evelyn	N.C.
University		Woodburn, Donald Stanley	Mo.
Witcover, Kate Briggs	S.C.	Woodcock, Fred Corle	D.C.
Withers, John Pescud	N.J.	Wooddell, George Preston	Pa.
A.B. 1936, University of North		Woodling, Francis Albert	Va.
Carolina		Woodmansee, Charles H.	Va.
M.S. 1938, Massachusetts Institute		Woodmansee, Dale Palmer	D.C.
of Technology		Woodrow, Cicely de Graffiered	Va.
Withington, Joylin	D.C.	Woodruff, Richard King	Md.
Witte, Carl Gordon	D.C.	Woods, Charles Sackett	Va.
Witten, Sarah Caroline	Va.	Woods, Elmer Charles	
Wittmos, Ronald Gordon	Va.	A.B. 1940, University of Chicago	Man.
Wobbeking, Bernard	Md.	Woods, Harris	Ill.
B.E. 1914, Johns Hopkins University		Woods, Russell Marshall	Va.
Wodka, Baila F.	Ill.	Woodside, Walter Wesley	
Wofford, Ben Milton	D.C.	Woodson, Blake Baker	
Wofford, Clarence Arnold	Okl.	A.B. 1937, L.L.B. 1940, University	Va.
Wofford, Joseph H.	Va.	of Virginia	
Wogman, Marilyn June	Md.	Woodson, Dorothy Louise	
Wolczynuth, Olga Jane	Tex.	A.B. in Ed. 1943, Mary Washington	Ill.
Wondke, Jean Elizabeth	Va.	College	
Wojehuski, Marion P.	Md.	Woodson, Wesley Sloan	
Wortan, Alice Ann	D.C.	B. of Ec.S. 1938, University of	Kan.
Wold, Henry Edward	D.C.	Pennsylvania	D.C.
Woley, Kathryn Jeanne	N.Y.	Woodward, Edith Stephens	
Wolf, Arthur Ira	D.C.	Woodward, Ernest Burton	D.C.
Wolf, Bernard Philip	D.C.	B.S. 1929, Kansas State College	Va.
Wolf, Joseph Jay	D.C.	Woodward, Kenneth Emerson	D.C.
Wolf, Verma Ruth	D.C.	Woodward, Lawrence Godfrey	N.C.
Wolf, Zev Leopold	D.C.	Woolard, Lulu Freer	D.C.
Wolfson, David	Va.	Woolen, Warren Boyd	Va.
B.E.E. 1943, College of the City of		Wooley, Marion Emma	D.C.
New York		Wools, William Pape, Jr.	Md.
Wolffarth, Carlton Huntington	D.C.	Wootton, Gloria Ann	D.C.
Wolfe Ernest Joseph	Md.	Worden, Cleo Oakley	Ky.
B.S. in B.A. University of Miami		Workman, Eleanor T.	
A.M. 1932, Columbia University		Worley, Farrell R.	Va.
Wolfe Joe Patrick	Mich.	B.S. 1935, University of Kentucky	Va.
A.B. 1943, Hillsdale College		Worley, Richard Bryce	Va.
Wollfenson, Jay Warren	D.C.	Worsham, Margaret Mackey	Va.
Wolff, Jane Jay	D.C.	Worthington, Rebecca Harmon	D.C.
Wolfford, Neil Edmondson	Va.	Wortman, David Morris	Mo.
Wolkem, Jacob A.	D.C.	Wotjer, Douglas Fontaine	
A.B. 1942, University of Pennsylvania		Wright, A. Joseph	
Wollin, Harold Frank	D.C.	A.B. 1930, M.S. 1941, Washington	D.C.
Wolman, Irwin	D.C.	University	Va.
Wolpoff, Millicent	N.C.	Wren, Marvin Robert	
Womack, Sara Catherine		Wright, Albert Arthur	
A.B. 1942, Woman's College, University		B.S. 1943, University of California	Calif.
of North Carolina		Wright, Benjamin Lee, Jr.	
Wong, Tim Hsien	D.C.	Wright, Betty Imogene	Pa.
Wong, Wing	N.H.	Wright, Dorothy Jane	Mo.
Wonerl, Leroy H.	Va.	Wright, Elizabeth	Md.
A.B. 1942, The George Washington		Wright, George Andrew	D.C.
University		Wright, Gilbert R.	Va.
Woo, Joseph Clarence	Calif.	Wright, James Howard	Md.
Wood, Dorothy Anna	D.C.	Wright, John Ferguson	Va.
Wood, Edwin Charles	D.C.	Wright, Joanne Louise	D.C.
Wood, Elizabeth Joan	Mo.	Wright, Jolanie Bryan	Md.
Wood, Gwendolynn Joyce	Va.	Wright, Sam Skinner, Jr.	D.C.
Wood, Harvey Earl	D.C.	Wright, Thomas Gorsuch	
Wood, Jerald Lawrence	Mont.	Wright, Thomas William Dunstan	Md.
Wood, Kenneth Russell	N.Y.	A.B. 1941, Harvard University	Va.
A.B. 1939, University of Kansas		Wright, Walter John	
Wood, Lucy Alice	Wis.	Wright, Gregory	
Wood, Mary Martha	Md.	B.S. 1915, Roanoke College	Md.
Wood, Robert Ambrose	D.C.	A.M. 1941, Columbia University	
Wood, Robert Andrew	D.C.	Wurster, Rachel Anne	Ind.
Wood, Robert Bruce	Md.	A.B. 1939, Cornell College	D.C.
Wood, Robert Lukens, Jr.	D.C.	Wurz, Nelson Hugh	
Wood, Sally Joan	Mich.	Wurzer, Rose Agnes	

Wurzlinger, Martha	D.C.	Yost, Paul Nace	Pa.
Wyatt, Agnes Boiesau	D.C.	A.B. 1941, The George Washington University	
Wyble, Keith Donald	Mich.	Yousmans, James R.	Ohio
Wyman, Ethel M.	D.C.	Younes, William Gabriel	D.C.
Wyman, Louise	D.C.	Young, Cheng-Pang	D.C.
B.S. 1915, Missouri State Teachers College		A.B. 1916, National Ting Hua University, China	
Wynn, Ruth Alberta	D.C.	Young, Corinne Frances	Md.
A.B. 1938, Catholic University of America		Young, Edward William	Mich.
Ed.M. 1943, University of Maryland		B.E.E. 1942, University of Detroit	
Wynne, Eleanor Gertrude	Va.	Young, George Wentworth	N.Y.
Wynne, James Francis	Va.	A.B. 1941, Colby College	
Wysong, Rufus Choate	D.C.	Young, Glenn Albert	Okla.
Wyville, Alma Christine	D.C.	A.B. 1941, Oklahoma University	
		Young, Ina Marie	D.C.
		Young, Leiman Harvey	Va.
		Young, Jewelllyn Anker	D.C.
		B.S. in E.E. 1938, University of Nevada	
Y		Young, Naomi	W.Va.
Yaffee, Philip	Mass.	Young, Norma Elizabeth	D.C.
B.S. in E.E. 1942, Northeastern University		Young, Olive Emily	N.Y.
Yagerhofer, Fred Charles	D.C.	A.B. 1929, A.M. 1930, University of Rochester	
Yahner, Philip Anthony	Pa.	Young, Peggy Marie	D.C.
Yahraes, Joseph Kent, Jr.	D.C.	Young, R. Herndon, Jr.	Idaho
Yahya, Esma	Md.	A.B. 1935, College of Idaho	
A.B. 1945, Western Reserve University		Young, Regina M.	D.C.
Yalom, Isador David	D.C.	B.S. 1929, Ohio State University	
Yamamoto, Hirotochi	D.C.	A.M. 1945, The George Washington University	
Yamamoto, Kenneth	D.C.	Young, Virginia Gwathmey	N.Y.
Yamber, John Florian	D.C.	A.B. 1936, Stephens College	
Yane, Boris Stephen	Maine	Young, William Alexander	Ala.
A.M. 1938, The George Washington University	N.J.	B.S. 1925, Alabama Polytechnic Institute	
Yang, Tign-Yih	D.C.	Young, Wilma Welch	Va.
A.M. 1942, Yale University		Youngdahl, Olga Eleanor	Mich.
Yannela, Anthony	N.Y.	Yowell, Eunice Inez	D.C.
Yao, Shao Yung	D.C.	Yu, Tso Min	D.C.
Yarina, William	N.Y.	Yuan, Chih Chi	D.C.
Yasumoto, Shiori	D.C.	Yuelkin, Leon	N.Y.
Yates, Evelyn Caroline	N.Y.	B.S. 1942, LL.B. 1943, St. Johns University	
Yates, Martha DeShields	D.C.	Yule, Dorothy Catherine	N.Y.
Yates, Robert Mallory	N.M.	Yutmeyer, Edith Cleoria	Ohio
B.S. in M.E. 1940, New Mexico State College of Agriculture and Mechanical Arts			
Yates, Wilfred Austin	Md.		
A.B. 1938, Mount St. Mary's College		Z	
Yeager, Sherrill Jonas	D.C.	Zabiegalski, Diane	Pa.
Yeats, J. Hugh	Ga.	Zachry, William Brown, Jr.	Fla.
A.B. 1941, Oglethorpe University		A.B. 1941, University of Florida	
LL.B. 1942, Woodrow Wilson College of Law		Zagier, Helene De Boey	N.Y.
Yekta, Fary	D.C.	Zahniser, Robert Lloyd	Va.
Yen, Hilda Yatsing	China	Zaid, Charles	Pa.
A.B. 1940, Yale University, China		A.B. 1933, Temple University	
Yenchus, Mildred Mary	Ohio	Zander, Frederick George	Va.
A.B. 1919, Ohio State University		Zangrilli, Louis	D.C.
Yena, Genevieve Margaret	D.C.	Zanetti, Gerorgette A.	D.C.
Yensen, Bettina Rae	Calif.	Zapi, Thomas Lane	D.C.
Yetman, Thomas William	R.I.	Zapal, Eugene Seba	D.C.
Yevich, Edward Stephen	Pa.	Zappone, Isabel Allien	D.C.
Yochelson, Estelle Frances	D.C.	Zarravina, Allan Americus, Jr.	D.C.
Yochem, Gerard M.	N.Y.	Zarrilli, Kenneth Frederick	Conn.
Yoder, Ned John	Va.	Zatra, Enzo in Alfrello	D.C.
Yolles, Tamarath Knigin	N.Y.	Zatz, Anne Ruth	D.C.
A.B. 1940, Brooklyn College		Zatz, Dorothy	D.C.
Yonder, Rose Anna	Colo.	Zauner, John Hudson	Md.
York, Elizabeth Anne	Fla.	B.S. 1936, Wilson Teachers College	
York, Robert Lamar	D.C.	Zawatsky, Murray Joseph	D.C.
Yorkdale, Elizabeth W.	Md.	Zease, George A.	D.C.
Yost, Charles Francis	D.C.	Zeldin, Abraham Jack	Md.
Yost, Margerite Rosemary	D.C.	B.S. 1939, New York University	

Zeman, Anne Josephine	N.C.	Zingler, Luella Sarah	Wis.
Zemantowsky, Mary T.	Conn.	Zinkle, Pauline	D.C.
B.S. in H.E. 1937, The George Washington University		Zipser, Paul Cornelius	D.C.
Zeno, Luis Antonio	P.R.	Zirkind, Ralph	Va.
A.B. 1944, University of Puerto Rico		B.S. 1940, College of the City of New York	
Zentgraf, Edward August	D.C.	M.S. 1945, Illinois Institute of Technology	D.C.
B.S. 1937, New York University		Zitani, Alfred Maurice	D.C.
Zeakind, Thelma Janet	D.C.	Zolla, Antoinette	D.C.
Zevin, Lena Diamond	D.C.	Zollars, Edna Marshall	Mass.
Zevin, Morris		Zorzy, John	La.
A.B. 1914, Upsala College	D.C.	Zuber, Marion	Pa.
Zevin, Sidney		Zuccarini, Laurina Cecelia	N.Y.
B.S. 1910, Wilson Teachers College	D.C.	Zucker, Morton David	D.C.
Zeydri, Gianni Randolph	Md.	Zuckerman, Louise Ann	Wis.
Zia, Joshua E.	Md.	Zuern, Margaret Mary	D.C.
Zichterman, Harry William	D.C.	Zugbe, Jules	N.Y.
Ziegert, Eleanore Rose	Md.	Zullo, Anna L.	D.C.
Ziehl, Wilbur Henry	D.C.	Zustman, Herbert L.	Ill.
Zielar, Allan Vaullie	Md.	Zweigert, Seymour David	
Zilch, Helen Josephine	Md.	B.S. in M.E. 1943, Illinois Institute of Technology	Conn.
Zimmer, David Joseph	Mo.	Zybert, Jayne Emile-Anne	
Zimmerman, Joe Adlai	N.Y.		
A.B. 1942, Westminster College			
Zimmerman, Natalie			



## DIVISION OF EXTENSION

1945-46

### STAFF OF INSTRUCTION

Bauseman, James Edward, A.M., *Instructor in Child Growth and Development and Educational and Vocational Guidance*  
Bellak, Leopold, A.M., M.D., *Instructor in Human Relations*  
Bergin, Katherine Pizaletti, A.M., *Instructor in Mathematics*  
Chu, Phyllis Shu-Yuan Teng, A.B., *Instructor in Chinese*  
Duvinae, Thelma, A.B., M.S.S., *Instructor in Child Growth and Development*  
Fox, James Harold, A.M., Ed.D., *Instructor in Parent-Teacher Education*  
Fox, Lawrence, A.B., M.S. in Pub. Adm., *Instructor in Political Science*  
Greaves, Gerard Alban, A.M., *Instructor in Mathematics*  
Hall, Sidney Bartlett, A.M., Ed.D., LL.D., *Instructor in Educational and Vocational Guidance*  
Ho, Alfred Kuo-laing, Ph.D., *Instructor in Chinese*  
Jarman, Burnice Herman, A.M., Ed.D., *Instructor in Instructional Problems*  
McRae, Luther, A.M., *Instructor in Child Growth and Development*  
Nichols, Mary Delia, A.B., M.S.S., *Instructor in Child Growth and Development*  
Shneiderov, Anatol James, A.B., M.E., *Instructor in Russian*  
Smith, Newbern, F.E., Ph.D., *Professorial Lecturer in Electrical Engineering*  
Stingle, Howard Ellsworth, A.B., *Instructor in Chinese*  
Thomas, Florence Hall, A.M., *Instructor in English for Foreigners and Professional Writing*

### STUDENTS REGISTERED

#### A

Acton, Virginia Livingston  
Agee, Eleanor P.  
Allen, Sylvia Dunnivant  
Altizer, A. Lillian  
Armenaki, Mattie-Lou  
Arndt, Christian Ottomar  
Atland, Lillian Eldora  
Aylward, Margaret F.  
Aylward, Roland A.

#### B

Bagby, George F.  
Bahm, Clifford  
Balazs, William Edward  
Baldwin, Lawrence Philip  
Ballantine, Barbara  
Barbour, Mary Jane

Barry, William  
Batease, John Charles  
Bateman, William Raphael  
Bates, Virginia Mae  
Bays, Helen M.  
Bays, Kathleen  
Beale, Elizabeth E.  
Bean, Alma Lois  
Beatty, Ira  
Been, Edna Louise  
Bell, Melvin  
Bennett, Emily H.  
Benson, Virginia B.  
Berry, Elmer F.  
Bird, Ray Dante  
Black, Lora S.  
Bloch, Henrietta  
Blunt, Marjorie E.  
Boddie, Charles Edwin

Boisvert, Ernest Willard  
 Bolton, Alice Rohrer  
 Bordelon, LeRoy J.  
 Bosse, Herman L.  
 Braden, Robert Ashley  
 Brower, Gertrude  
 Brown, Imogene Elizabeth  
 Bulger, George A.  
 Burland, Elmer Granville  
 Burton, William Milea-Joseph

## C

Cain, George  
 Campbell, Charles E.  
 Campbell, Doris Lorraine  
 Carey, Mary Lindsey  
 Carpenter, Jessie Catherine  
 Carr, Frank Patrick, Jr.  
 Carruthers, Leo T.  
 Carter, Rachel  
 Chapman, Clifford  
 Chase, George  
 Chen, Alvin Bennett  
 Chu, Paul  
 Clauson, Mary C.  
 Cohen, Doris  
 Coleman, Elizabeth Newman  
 Coorlin, Constance A.  
 Costello, Florence  
 Cotner, Elizabeth Marie  
 Cox, Dora Kirk  
 Cree, Edna M.  
 Crum, Francis May  
 Cunningham, William

## D

Dahlman, Eleanor M.  
 Dale, John Charles  
 Dalzell, Harry Blackburn  
 Darrow, Carol C.  
 Deese, Ruby B.  
 DeNiro, Patrick J.  
 Derby, Margaret H.  
 DeSouza, Marie-Berenica  
 Dew, Alice P.  
 Donovan, John Harold  
 Dougall, Kathleen Cahill  
 Duncan, May William  
 Dunnivant, James Randolph  
 Dye, Lydia

## E

Edie, Mamie Viola  
 Edson, Franklin M.

Eley, Lilla Yancey  
 Elkins, Venia Etta  
 Espey, Helen Elizabeth  
 Estes, Myrtle Anne  
 Evans, M. Harriet  
 Excell, Katherine Edith

## F

Fairchild, Vida Irene  
 Ferris, Schuyler Davenport  
 Fischer, Carol Joyce  
 Fisher, Ernest Lowell  
 Fisher, Marie Evelyn  
 Flemer, George R.  
 Flester, Paul  
 Fournier, Roland M.  
 Fox, John R.  
 Fruhauf, Bedrich  
 Fuller, Mary Ruth  
 Furman, Laura M.

## G

Gardiner, Emily Floyd  
 Garner, William I.  
 Garrison, Josephine R.  
 Gillette, Bernice R.  
 Gillum, Elsie Althea  
 Glaze, Grady C.  
 Goley, Alfred Victor  
 Goodloe, Nannie Waller  
 Goolsby, Lee Dillard  
 Gordenev, Eugene M.  
 Gordon, Kenneth W.  
 Gore, Mary Augusta  
 Goreman, Mary K.  
 Grait, Richard Joseph  
 Grant, Leon M.  
 Gravette, Florence R.  
 Greenberg, Joseph  
 Grutman, Vivian

## H

Haas, Vernard T.  
 Haley, Louise Albin  
 Hansen, John S.  
 Hansen, R. Florence Elizabeth  
 Hanson, Pearl B.  
 Harilee, Jo-Beth Carden  
 Harilee, John  
 Harrison, Clara Louise  
 Harrison, David W.  
 Harrison, Elizabeth Ann  
 Harrison, Virginia Houghton

Hawthorne, Charles Byrd  
 Haynie, Mary Elsie  
 Hazel, Annie Elizabeth  
 Heaton, Mary Park  
 Heintzelman, Caroline R.  
 Henke, Mary Isabel  
 Herbert, Kenneth H.  
 Hersey, Rodney Earl  
 Hildebrand, Charles Oakley  
 Hillsman, Lucye Jane  
 Hines, William Albert  
 Hoeker, Justine L.  
 Hoover, James Dawson  
 Hunt, Laura Cross  
 Hunt, Marjorie Josephine  
 Hunter, Jessie F.  
 Hurt, Harriet S.  
 Hurwitz, William  
 Hyatt, Abraham

## J

Jacobs, Milton  
 Jobe, Milton Lockwood  
 Johnson, Clonnie Vasco, Jr.  
 Jones, Va H.  
 Joseph, Pearl

## K

Kandstreet, Louise Davis  
 Karazikas, Helen P.  
 Keahy, William  
 Kelson, Rose K.  
 Kern, Mary K.  
 Kessinger, Charles D.  
 Keys, Zella C.  
 King, Phillip Miskell  
 Kinsolver, A. Elizabeth  
 Kipnis, Ernest  
 Kirsh, Anne  
 Kozlowski, Helen Theresa  
 Kretzinger, Clara J.  
 Kuderna, Charles Jerome  
 Kuebler, Carol Carr

## L

Launer, Raymond Alfred  
 Lebman, Eunice J.  
 Lee, Helen  
 LeGallais, Elizabeth B.  
 Legge, Roger C., Jr.  
 Leibell, Esther  
 Leibell, Leroy H.  
 Lenoff, Mary

Leong-Way, Madeline M.  
 Leshko, Peggy  
 Lester, Robert Thomas  
 Levinson, Gladys  
 Lewis, Thelma White  
 Lexton, Mabel Harriet  
 Linden, George  
 Linton, Howard Phillip  
 Lippmeyer, Martha Ursula  
 Llewellyn, Phyllis Jane  
 Lobato, Maria Jose  
 Long, Corson Wesley  
 Lovitz, Joseph G.  
 Lund, Signe Thode

## M

Mahanic, Helen  
 Malone, William G.  
 Mallus, Nicholas M.  
 Manning, Gertrude Araminta  
 Manvell, William  
 Martz, Annie Belle  
 Matchette, Louise May  
 Mauricio, Paul Fernando  
 Mava, James William  
 McCarthy, Emma Jean  
 McCarthy, John E.  
 McCleary, Eudora A.  
 McCormick, Ann  
 McCormick, Anna Moffatt  
 McCown, Mary  
 McCrory, Mae Odell  
 McCullough, Jane E.  
 McGrew, Charlie Lewis, Jr.  
 McHugh, Ann M.  
 McIntosh, James Florio  
 McKenney, Florence Rea  
 McMillan, James C.  
 Meadows, Blanche Fleming  
 Meier, Robert Willy  
 Melo, Jose Campos  
 Mendel, Howard Pyle  
 Megan, Ruth Alta  
 Miller, Mary Ida  
 Miller, Robert Edward  
 Miller, Ruby Y.  
 Miller, Warren H.  
 Miro, Ernestina  
 Mittleman, Dorothy Ann  
 Moncure, Anne E.  
 Money, Mary Elizabeth  
 Montague, Sterling A.  
 Moraz, Walter Stanley  
 Morris, Mildred Ann



Moy, Virginia  
Murray, Zama Louise  
Muzzey, Susan Ann  
Myers, Catherine Mary

## N

Nahme, Muriel Lee  
Nelson, Theodora  
North, Camille Janina  
Novinger, Mary Alice

## O

O'Brien, Patricia Linda  
Offield, Vonna W.  
Ohl, Robert F.  
Ostrander, Russell Searle  
Ottinger, Guy Leon  
Owen, Sydnor Lee, Jr.

## P

Pape, Robert Bruce  
Pavlat, Robert Kendall  
Pence, Carrie Rebecca  
Perry, V. Virginia  
Phillips, Ruth Virginia  
Pinkson, Ray  
Pockrass, Nell Stubblefield  
Polis, Irene N.  
Porter, Gail  
Potter, Lerene Moffette  
Potter, Robert Thomson  
Preceda, Norman  
Price, Eve S.  
Price, J. H.  
Prisaznick, Florence J.  
Prishva, Nina

## Q

Quinn, Sarah M.

## R

Reely, Martha Elizabeth  
Rees, William Carl  
Risko, George John  
Roberts, Dorothy  
Robinson, Charles Henry  
Roby, Doris Lorraine  
Rogers, Charles Edgar  
Rogers, Doris Draper  
Roschy, Bertha Brown  
Rowe, Blanche

Rowe, Everett Lee  
Royston, Ruth Somerville

## S

Sabo, Anne P.  
Sandstrom, Lena Grace  
Santor, Mary M.  
Scheibe, Elmer Harry  
Schilling, Edith A.  
Schmunk, Frank Virrel  
Schumacher, Robert Edison  
Schuston, Louise Mary  
Scott, Florence Baptist  
Sebby, Helen Mildred  
Sharkey, Rosemary E.  
Sharr, Cyrus Jewett  
Shaw, Harry Hudson  
Shetter, Harriet  
Sheffield, Fred Thomas  
Sheppard, Irving Jason  
Shippy, Christine  
Shier, Russell William  
Shinner, R.  
Slama, Adele Bessie  
Smith, Marjorie Hanson  
Smith, Esther Elizabeth  
Snead, Robert Horton  
Snowberger, Garnet  
Solomon, Sam  
Sowell, William D.  
Sparks, Stella  
Springer, Margaret Virginia  
Stallings, William Paul  
Stanley, Virginia E.  
Stirling, James Madison  
Stroupe, Lawson S.  
Sturman, George  
Swearingen, Robert Dale  
Sweatt, Tiny  
Swift, Dorothy Rowland

## T

Tann, Tatiana  
Tayman, William Perry  
Thayer, Mignon E.  
Thompson, Cynthia Nell  
Tickel, Jobe Carlton  
Tom, Lily Sarah  
Toner, Mary Cunningham  
Trent, Marjorie Orr  
Trexler, James Hugh  
Truitt, Elizabeth  
Tuberville, Alice Atwill

U

Ullom, Laura Alma

V

Vaccaro, Camillo Jimmie, Jr.  
VanAllen, Roland Louis  
VanStaveren, Lohanna B.  
Vaughan, Donald E.  
Vicino, Dominic Joseph  
Von Glahn, Anne Burt

W

Walling, Maude Maddox  
Warner, William O.  
Warren, Dolphus King  
Warren, Heywood Allen  
Weast, Ruth Mary  
Wenger, Nelson Edward

Whisnant, Lloyd T., Jr.  
White, H. Francis  
White, Kathleen Givens  
Whitlock, Helen Weaver  
Wilcox, Margaret Lillian  
Wilton, Francis William  
Williams, Anna  
Williams, Warren E.  
Wimbrow, Charles Franklin  
Winton, Ruth Paula  
Wiseman, Virginia Lucas  
Wood, Walter Henderson  
Woodmansee, Dale Palmer

Y

Yarina, William

Z

Zibil, Shirley Ida  
Zuber, Marion

## SUMMARY OF REGISTRATION

FALL AND WINTER TERMS 1945-46

### THE JUNIOR COLLEGE

	<i>Men</i>	<i>Women</i>	<i>Total</i>
Freshmen .....	851	1,012	1,863
Sophomores .....	431	605	1,036
	<u>1,282</u>	<u>1,617</u>	<u>2,899</u>

### COLUMBIAN COLLEGE

Juniors .....	50	234	284
Seniors .....	84	140	224
Candidates for the degree of Master of Arts.....	92	70	162
Candidates for the degree of Master of Science.....	68	7	75
	<u>294</u>	<u>451</u>	<u>745</u>

### THE GRADUATE COUNCIL

Candidates for the degree of Doctor of Philosophy....	22	11	33
---	----	----	----

### THE SCHOOL OF MEDICINE

First Year .....	73	11	84
Second Year .....	74	4	78
Third Year .....	74	5	79
Fourth Year .....	78	5	83
	<u>299</u>	<u>25</u>	<u>324</u>

### THE LAW SCHOOL

First Year .....	303	52	355
Second Year .....	97	19	116
Third Year .....	59	11	70
Candidates for the degree of Master of Laws.....	36	3	39
Candidates for the degree of Doctor of Juridical Science.	4	2	6
Unclassified .....	43	5	48
Special .....	3	1	4
	<u>545</u>	<u>93</u>	<u>638</u>

### THE SCHOOL OF ENGINEERING

Freshmen .....	302	8	310
Sophomores .....	141	4	145
Juniors .....	26	2	28
Seniors .....	44	—	44
	<u>513</u>	<u>14</u>	<u>527</u>



# Summary of Registration

441

## THE SCHOOL OF PHARMACY

Juniors .....	8	2	10
Seniors .....	1	3	4
	<hr/> 9	<hr/> 5	<hr/> 14

## THE SCHOOL OF EDUCATION

Juniors .....	14	47	61
Seniors .....	8	53	61
Candidates for the degree of Master of Arts.....	66	86	152
Candidates for the degree of Doctor of Education.....	31	13	44
	<hr/> 119	<hr/> 199	<hr/> 318

## THE SCHOOL OF GOVERNMENT

Juniors .....	88	42	130
Seniors .....	34	20	54
Candidates for the degree of Master of Arts.....	45	31	76
	<hr/> 167	<hr/> 93	<hr/> 260

## THE DIVISION OF UNIVERSITY STUDENTS

University Students .....	1,647	1,767	3,414
---------------------------	-------	-------	-------

## THE DIVISION OF SPECIAL STUDENTS

Special Students .....	835	280	1,115
------------------------	-----	-----	-------

## SECRETARIAL ADMINISTRATION

Candidates for the degree of Bachelor of Science in Secretarial Administration .....	—	10	10
---	---	----	----

## THE DIVISION OF EXTENSION

Students registered .....	164	183	347
---------------------------	-----	-----	-----

## SUMMARY

Total registration, Academic year 1945-46.....	5,921	4,753	10,674
Students registered, Summer Term 1945.....	1,231	1,358	2,589
Total registration, 1945-46.....	<hr/> 7,152	<hr/> 6,111	<hr/> 13,263
Duplicate registrations.....	676	835	1,511
Total number of Students registered, Summer Term 1945, Fall and Winter Terms 1945-46.....	<hr/> 6,476	<hr/> 5,276	<hr/> 11,752

## TEACHING STAFF

Professors Emeritus .....	23
Professors .....	66
Adjunct Professors .....	13
Professorial Lecturers .....	35

Clinical Professors .....	19
Adjunct Clinical Professors .....	5
Associate Professors .....	42
Associate Clinical Professors .....	3
Associates in School of Medicine .....	50
Assistant Professors .....	33
Assistant Clinical Professors .....	13
Lecturers .....	64
Instructors and Instructors in Extension .....	53
Clinical Instructors .....	73
Research Associates .....	8
Associates .....	77
Fellows .....	15
Assistants .....	3
	<hr/> 595

MAY 30, OCTOBER 17, 1945; FEBRUARY 22, MAY 29, 1946

### DEGREES CONFERRED

Associate in Arts .....	429
Bachelor of Arts .....	231
Bachelor of Arts in Education .....	35
Bachelor of Arts in Government .....	50
Bachelor of Science .....	33
Bachelor of Science in Engineering .....	3
Bachelor of Civil Engineering .....	3
Bachelor of Electrical Engineering .....	4
Bachelor of Mechanical Engineering .....	10
Bachelor of Science in Home Economics .....	15
Bachelor of Science in Pharmacy .....	5
Bachelor of Science in Physical Education .....	15
Bachelor of Science in Secretarial Administration .....	2
Bachelor of Laws .....	57
Civil Engineer .....	1
Doctor of Medicine .....	15
Doctor of Education .....	5
Doctor of Philosophy .....	1
Doctor of Engineering (Honorary) .....	1
Doctor of Fine Arts .....	1
Doctor of Laws (Honorary) .....	27
Doctor of Science (Honorary) .....	51
Master of Arts .....	12
Master of Arts in Education .....	10
Master of Arts in Government .....	14
Master of Science .....	1
Juris Doctor .....	14
Mechanical Engineer .....	
Master of Laws .....	
Total .....	<hr/> 1,112

## GEOGRAPHICAL DISTRIBUTION OF STUDENTS

Alabama .....	89	Nebraska .....	119
Arizona .....	25	Nevada .....	8
Arkansas .....	57	New Hampshire .....	18
California .....	159	New Jersey .....	150
Colorado .....	42	New Mexico .....	14
Connecticut .....	86	New York .....	674
Delaware .....	12	North Carolina .....	154
District of Columbia .....	4461	North Dakota .....	30
Florida .....	85	Ohio .....	217
Georgia .....	63	Oklahoma .....	67
Idaho .....	31	Oregon .....	51
Illinois .....	288	Pennsylvania .....	453
Indiana .....	103	Rhode Island .....	42
Iowa .....	93	South Carolina .....	51
Kansas .....	54	South Dakota .....	20
Kentucky .....	51	Tennessee .....	70
Louisiana .....	32	Texas .....	227
Maine .....	37	Utah .....	61
Maryland .....	871	Vermont .....	26
Massachusetts .....	234	Virginia .....	1,511
Michigan .....	108	Washington .....	54
Minnesota .....	93	West Virginia .....	92
Mississippi .....	61	Wisconsin .....	91
Missouri .....	153	Wyoming .....	47
Montana .....	19		

## FOREIGN COUNTRIES

Afghanistan .....	1	Italy .....	2
Belgium .....	4	Mexico .....	2
Bolivia .....	1	The Netherlands .....	2
Brazil .....	3	Newfoundland .....	1
Canada .....	7	New Zealand .....	1
China .....	14	Panama .....	4
Cuba .....	2	Peru .....	2
Czechoslovakia .....	1	Philippine Islands .....	2
Denmark .....	1	Puerto Rico .....	13
England .....	4	Rumania .....	2
France .....	2	Russia .....	3
Greece .....	1	Siam .....	2
Hawaii .....	2	Syria .....	1
Iran .....	1	Turkey .....	1
Iraq .....	1		





THE GEORGE WASHINGTON UNIVERSITY  
WASHINGTON, D. C.

Report of the Comptroller  
FOR THE YEAR ENDED  
AUGUST 31, 1946





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## LETTER OF TRANSMITTAL

December 31, 1946

TO THE PRESIDENT AND THE BOARD OF TRUSTEES  
THE GEORGE WASHINGTON UNIVERSITY  
WASHINGTON, D. C.

GENTLEMEN:

I am submitting herewith the Report of the Comptroller of The George Washington University for the fiscal year ended August 31, 1946. This report is a review of the budget operations for the year and is based on the budget approved by the Board of Trustees of the University.

The accounts of the University are kept and its financial reports set up as far as practicable in conformance with the recommendations of the National Committee on Standard Reports for Institutions of Higher Education. Under that plan the funds of the University are classified in various fund groups, and the accounts and financial statements are set up to segregate clearly the assets and liabilities of each of these groups as indicated in the balance sheet, Exhibit A.

R. G. Rankin & Co. have examined the accounts of the University for the past year, and their report is appended herewith.

A condensed summary of the principal facts in the report is presented below and on succeeding pages, followed by detailed Exhibits and Schedules.

Respectfully submitted,  
HENRY W. HENZOG  
Comptroller



# CONDENSED SUMMARY CURRENT FUNDS—UNRESTRICTED

These Funds represent unrestricted assets which are available for immediate use in the current operation of the University.

Operating Income for the Year (Exhibit B and Schedule 1)	3,546,517.99
Operating Expense for the Year (Exhibit B and Schedule 2)	3,183,136.07
Excess of Current Operating Income over Current Operating Expense	363,381.92

In accordance with the provisions of OSRD Contract OEMsr-273, a charge of \$50,000 was made to this contract as an allowance for overhead costs not otherwise reimbursable during the fiscal year ended August 31, 1946. This charge is subject to necessary adjustments to bring overhead allowance in line with actual costs.

Scholarships were awarded to students from the following sources: current Funds Unrestricted, \$11,272.67 (Schedule 2—Page 5); Endowment Income, \$1,874.90 (Schedule 10—Page 4).

The University continued to provide year-round instruction on a three-term basis except in the School of Medicine.

The method of reporting income from student fees was changed during the fiscal year from a cash basis to an accrual basis, resulting in a net credit of \$395,473.41 to Current Operating Income.

Surplus, Current Funds Unrestricted, at the end of the fiscal year 1945-46 amounted to \$137,629.29, an increase of \$52,368.45 (Exhibit B). A summary of changes affecting Surplus appears in Exhibit B.

## CURRENT FUNDS—RESTRICTED

Gifts, grants, agency funds, and income from endowments comprise these funds which consist of currently expendable assets, limited as to disposition (Exhibit C and Schedule 10).

During the year restricted gifts for immediate use amounted to \$3,100.00 (page 70); other restricted gifts and grants for use as needed or specified amounted to \$1,028,045.36 (page 70). Restricted endowments earned \$75,981.36.

## LOAN FUNDS

For the assistance of students seeking financial aid, loan funds have been established by the University and other organizations (Schedule 11). Loans are made at a low rate of interest and when repaid the interest is added to principal.

During the year loans were made to 88 students. Gifts of \$156.35 were made to the Loan Funds (Exhibit D).

## ENDOWMENT FUNDS

The principal of all endowment funds amounts to \$2,642,301.55, an increase of \$168,127.36 (Exhibit E). These funds are represented by assets which, under the terms of wills, deeds of gift, or under the by-laws of the University, must be held in perpetual trust for income-producing purposes. The principal amount and purpose of every endowment fund of the University are recorded in Schedule 12. A description of the funds begins on page 75.

"Consolidated Endowment Funds" consist of eighty-three endowments with a total value of \$1,247,891.92 (Schedule 5—Page 2). The assets of these funds are combined to eliminate the possibility of partial or total loss of any fund through the failure of a specific investment, and to avoid temporary suspension of income; it also prevents carrying uninvested small cash balances in amounts not adapted to investment, and gives equality of treatment to all funds. Unless otherwise restricted by the donors, the assets of all new endowments are added to the assets of the Consolidated Endowment Funds.

Earnings of Consolidated Endowment Funds are recorded in one income account and at the end of the year are distributed to the participating funds in the proportion each fund bears to the total of the entire group. The rate of return on the investments of these funds amounted to 3.991 $\frac{1}{2}$ % during the past year and, after deducting 10% as a reserve against losses (Schedule 12—Page 2), was distributed at the rate of 3.5182 $\frac{1}{2}$ %.

The Scottish Rite Endowment Fund earned 3.3015% net income on its investments during the year just ended.

Net income of all endowment funds for the year was \$93,006.64 (Schedule 10—Page 4).

Pledges to the School of Medicine Endowment Fund on August 31, 1946, totaled \$108,072.00.

# PLANT FUNDS—UNEXPENDED

Cash and other assets not yet expended for development of the physical plant comprise this type of fund (Schedule 7). There was expended from these funds during the past year \$13,733.26 for land, buildings, and equipment (Schedule 13). Unexpended Plant Funds totaled \$347,346.75, an increase of \$195,057.79 (Exhibit F).

## PLANT FUNDS—INVESTED IN PLANT

The investment in the physical plant of the University includes land, buildings, and equipment, analyzed as follows:

	LAND AND BUILDINGS	EQUIPMENT	TRUST NOTES PAYABLE	NET INVESTMENT IN PLANT
BALANCE AUGUST 31, 1945.....	4,895,559.36	605,490.16	589,822.83	4,911,226.69
ADDITIONS DURING YEAR.....	<u>398,013.64</u>	<u>51,919.05</u>	<u>85,427.17</u>	<u>364,505.52</u>
BALANCE AUGUST 31, 1946 (Exhibits A and G; Schedules 8 and 9)	<u>5,293,573.00</u>	<u>657,409.21</u>	<u>675,250.00</u>	<u>5,275,732.21</u>





## AUDIT CERTIFICATE

December 31, 1946

TO THE PRESIDENT AND THE BOARD OF TRUSTEES  
THE GEORGE WASHINGTON UNIVERSITY  
WASHINGTON, D. C.

GENTLEMEN:

We have examined the balance sheet of THE GEORGE WASHINGTON UNIVERSITY as at August 31, 1946, and the statements of current operating income and expense, current funds surplus, and other fund transactions for the fiscal year then ended, have reviewed the system of internal control and the accounting procedure of the University and, without making a detailed audit of the transactions, have examined or tested accounting records of the University and other supporting evidence, by methods and to the extent we deemed appropriate. It was not practicable to confirm receivables from United States Government agencies, but we have applied other auditing procedures in verification of this asset.

In our opinion, the balance sheet and related statements of current operating income and expense, current funds surplus, and other fund transactions included in the accompanying Report of the Comptroller of the University, present fairly the financial condition of The George Washington University as at August 31, 1946, and the results of operations for the fiscal year then ended, in conformity with accepted principles of university and college accounting applied on a basis consistent with that of the preceding year except that the method of reporting income from students was changed from a cash to an accrual basis during the fiscal year under review, resulting in a net credit of \$395,473.41 to current operating income.

Respectfully submitted,  
R. G. RANKIN & Co.

# THE GEORGE WASHINGTON UNIVERSITY

## BALANCE SHEET

August 31, 1946

ASSETS		LIABILITIES	
CURRENT FUNDS		CURRENT FUNDS	
UNRESTRICTED		UNRESTRICTED	
CASH.....	28,386.48	NOTES PAYABLE (Schedule 3).....	400,000.00
ACCOUNTS RECEIVABLE		UNION DUES PAYABLE.....	57.50
(Schedule 3).....	544,735.06	DUE TO RESTRICTED FUNDS.....	58,058.88
PREPAID EXPENSE		DEFERRED INCOME AND DEPOSITS	
(Schedule 3).....	58,333.20	(Schedule 3).....	35,709.07
		SURPLUS (Exhibit B).....	137,629.29
			631,454.74
RESTRICTED AND AGENCY		RESTRICTED AND AGENCY	
CASH.....	30,370.47		
DUE FROM UNRESTRICTED FUNDS..	58,058.88		
U.S.A. SAVINGS BONDS			
Series G, 2½%, due 11-1-54..	50,000.00	UNEXPENDED FUNDS (Exhibit C).....	138,429.35
LOAN FUNDS		LOAN FUNDS	
CASH (Schedule 4).....	18,224.41		
LOANS RECEIVABLE (Schedule 4)...	25,652.04	PRINCIPAL OF FUNDS (Exhibit D).....	43,856.45



# ENDOWMENT FUNDS

CASH (Schedule 5)..... 25,961.84  
 INVESTMENTS (Schedule 5)..... 2,279,445.08  
2,305,406.92

CONTROLLED BY OTHER TRUSTEES  
 (Schedule 6).....

336,894.63      2,642,301.55      PRINCIPAL OF FUNDS (Exhibit E)..... 2,642,301.55

## PLANT FUNDS

### UNEXPENDED

CASH (Schedule 7)..... 92,067.62  
 INVESTMENTS (Schedule 7)..... 255,279.13

347,346.75      PRINCIPAL OF FUNDS (Exhibit F)..... 347,346.75

### INVESTED IN PLANT

LAND AND BUILDINGS (Schedule 8) 5,293,573.00  
 EQUIPMENT (Schedule 9)..... 657,409.21

TRUST NOTES PAYABLE  
 (Schedule 8)..... 675,250.00  
 NET INVESTMENT (Exhibit G)..... 5,275,732.21

5,950,982.21

TOTAL..... 9,754,371.05      TOTAL..... 9,754,371.05

EXHIBIT A

SUMMARY OF CURRENT OPERATING INCOME AND EXPENSE

For the Year Ended August 31, 1946

INCOME (Schedule 1)			
Educational and General			
Student Fees	1,641,033 85		
Investment Income	75,011 66		
Gifts and Grants	1,104,713 09		
Other Sources	178,164 69		
	<u>2,998,923 29</u>		
Activities Relating to Instruction	309,668 06	3,308,591 35	
Auxiliary Enterprises		237,781 64	
Non Educational		145 00	3,546,517 99
			<u>3,183,136 07</u>
EXPENSE (Schedule 2)			
Educational and General			
Administration and General	318,643 28		
Instruction	887,985 11		
Organized Research	1,100,599 73		
Libraries	42,416 51		
Maintenance and Operation of Plant	197,656 57		
Other Expense	169,458 84		
	<u>2,716,760 04</u>		
Activities Relating to Instruction	308,451 67	3,025,211 71	
Auxiliary Enterprises	205,626 69	205,626 69	
Non Educational	40,684 00	40,684 00	3,271,522 40
			88,386 33
Less general overhead expense re-apportioned			<u>3,183,136 07</u>
EXCESS OF CURRENT OPERATING INCOME OVER CURRENT OPERATING EXPENSE (see below)			<u>363,381 92</u>

**SUMMARY OF CURRENT FUNDS—UNRESTRICTED SURPLUS**  
**For the Year Ended August 31, 1946**

BALANCE AUGUST 31, 1945 .....				85,260.84
ADDITION				
Excess of Current Operating Income over Current Operating Expense (see above) .....			363,381.92	
DEDUCTIONS				
Transferred to Net Investment in Plant—Land and Buildings—Exhibit G. ....		261,440.64		
Reduction of Trust Notes Payable—Exhibit G				
Trust Notes Payable August 31, 1945 .....	589,822.83			
Additions to Trust Notes Payable .....	135,000.00	724,822.83		
Trust Notes Payable August 31, 1946 (Schedule 8) .....		49,572.83	311,013.47	52,368.45
BALANCE AUGUST 31, 1946—Exhibit A .....				137,629.29

EXHIBIT B



# SUMMARY OF CURRENT FUNDS RESTRICTED—UNEXPENDED

For the Year Ended August 31, 1946

	TOTAL	MISCEL- LANEOUS	ORGANIZED RESEARCH	AGENCY	INVESTMENT INCOME
BALANCE AUGUST 31, 1945.....	231,877.02	37,524.98	126,750.82	6,744.48	60,856.74
ADDITIONS (Schedule 10)					
Gifts and Grants.....	1,028,528.80	8,803.69	1,019,725.11		
Miscellaneous receipts.....	10,419.82	273.75		10,146.07	
Investment income.....	97,105.30				97,105.30
	1,136,053.92	9,077.44	1,019,725.11	10,146.07	97,105.30
DEDUCTIONS (Schedule 10)					
Scholarships, fellowships.....	3,298.23	1,423.33			1,874.90
Prizes awarded.....	683.62	42.12			641.50
Lectures.....	1,223.22	1,223.22			
Transferred to Schedule 1.....	76,059.19	113.24			75,945.95
Transferred to Schedule 12.....	3,071.70	3,071.70			
Transferred to Schedule 13.....	28,651.41	28,651.41			
Refunds.....	330.25	330.25			
Salaries.....	640,269.89		640,269.89		
Expenses.....	460,329.84		460,329.84		
Withdrawals.....	5,629.38			5,629.38	9,919.68
Transferred to Trust Funds Principal.....	9,919.68				35.18
Other transfers.....	35.18				
	1,229,501.59	34,855.27	1,100,599.73	5,629.38	88,417.21
BALANCE AUGUST 31, 1946.....	138,429.35	11,747.15	45,876.20	11,261.17	69,544.83

SUMMARY OF LOAN FUNDS PRINCIPAL  
For the Year Ended August 31, 1946

BALANCE AUGUST 31, 1945	43,617 13
ADDITIONS (Schedule 11)	
Income from D.C. D.A.R. Endowment Fund	175 91
Gifts	156 35
Interest on loans	210 44
Transferred from Schedule 10	792 70
	<hr/>
DEDUCTIONS (Schedule 11)	
Refunded to United States Government	553 38
	<hr/>
BALANCE AUGUST 31, 1946—EXHIBIT A	43,856 45

EXHIBIT D

# SUMMARY OF ENDOWMENT FUNDS PRINCIPAL

For the Year Ended August 31, 1946

BALANCE AUGUST 31, 1945.....	2,474,174.19
ADDITIONS (Schedule 12)	
Gifts.....	137,031.36
Investment income.....	13,568.69
Gain on sale of investments.....	15,522.94
Transferred from Schedule 10.....	3,071.70
	169,194.69
DEDUCTION (Schedule 12)	
Transferred to Schedule 13.....	1,067.33
	168,127.36
BALANCE AUGUST 31, 1946—EXHIBIT A.....	2,642,301.55



# SUMMARY OF PLANT FUNDS—UNEXPENDED

For the Year Ended August 31, 1946

BALANCE AUGUST 31, 1945..... 152,288.96

## ADDITIONS (Schedule 13)

Gifts.....	178,592.66	
Investment income.....	479.65	
Transferred from Schedule 10.....	28,651.41	
Transferred from Schedule 12.....	<u>1,067.33</u>	208,791.05

## DEDUCTIONS (Schedule 13)

Land and Buildings—Invested in Plant—Exhibit G.....	1,573.00	
Equipment—Invested in Plant—Exhibit G.....	<u>12,160.26</u>	<u>13,733.26</u>
		<u>195,057.79</u>

BALANCE AUGUST 31, 1946—EXHIBIT A..... 347,346.75

EXHIBIT F

# SUMMARY OF NET INVESTMENT IN PLANT

For the Year Ended August 31, 1946

BALANCE AUGUST 31, 1945 ..... 4,911,226.69

	LAND AND BUILDINGS SCHEDULE 8	EQUIPMENT SCHEDULE 9
<b>ADDITIONS</b>		
Current Funds Unrestricted (Exhibit B) .....	261,440.64	
Plant Funds Unexpended (Exhibit F) .....	1,573.00	12,160.26
Departments (Schedule 2) .....		39,758.79
Trust Notes Payable (Schedule 8) .....	135,000.00	
	<u>398,013.64</u>	<u>51,919.05</u>
		449,932.69
<b>DEDUCTION</b>		
Trust Notes assumed during year (see above) .....	135,000.00	
Reduction in Trust Notes Payable (Exhibit B) .....	<u>49,572.83</u>	<u>85,427.17</u>
		364,505.52

BALANCE AUGUST 31, 1946—EXHIBIT A. .... 5,275,732.21

· SCHEDULES



CURRENT OPERATING INCOME  
For the Year Ended August 31, 1946

EDUCATIONAL AND GENERAL

STUDENT FEES	
Tuition and Laboratory	
Junior College.....	354,986.05
Columbian College.....	89,110.32
Graduate Council.....	2,301.81
School of Government.....	25,227.77
Division of Secretarial Students.....	1,101.42
Division of Special Students.....	108,426.32
Division of University Students.....	171,764.71
	752,918.40
Division of Extension Students.....	11,721.41
School of	
Education.....	24,700.00
Engineering.....	56,415.01
Law.....	58,922.99
Medicine.....	111,392.25
Pharmacy.....	2,047.14
Summer Sessions	
College	
Junior.....	136,175.23
Columbian.....	29,550.12
Division of	
Extension Students.....	3,059.34
Secretarial Students.....	374.50
Special Students.....	85,321.73
University Students.....	74,997.66

School of	
Education.....	9,438.75
Engineering.....	26,677.01
Government.....	28,612.70
Law.....	26,383.02
Pharmacy.....	725.05
Graduate Council.....	1,016.00
Unallocated (Fees Old).....	422,331.11
	<u>28,939.18</u>
	1,469,387.49

Miscellaneous Fees

Art Validation.....	100.00
Binding Theses.....	234.00
Breakage.....	8,806.60
Graduation.....	9,494.60
Junior Certificates.....	2,750.00
Library Fines.....	556.62
Medical School Credentials.....	2,835.50
Student Bar Association.....	1,762.00
Transcripts.....	668.04
University Fees.....	144,439.00
	<u>171,646.36</u>
	1,641,033.85

INVESTMENT INCOME (Schedule 10)

Endowment Funds	
Unrestricted.....	16,025.28
Restricted.....	<u>55,690.40</u>
Plant Funds	
Restricted.....	<u>3,295.98</u>
	75,011.66

# CURRENT OPERATING INCOME (Continued)

For the Year Ended August 31, 1946

## EDUCATION AND GENERAL (Continued)

Gifts and Grants		
Unrestricted (page 70)	585.03	
Restricted		
Schedule 10		
Dr. Freeman and Watts	428.33	
Organized Research (portion used)	1,100,599.73	
Other (page 70)	3,100.00	
	<u>1,104,128.06</u>	<u>1,104,713.09</u>

## OTHER SOURCES

Commissions for Collections of Doctors' Fees by Hospital	2,112.70	
Discounts Earned	956.99	
Miscellaneous Income	1,629.90	
Reading Clinic	165.00	
Rent on University Property—Net	26,896.90	
Speech Clinic	10.00	
Student Activities		
Cue and Curtain	5,664.65	
Hatchet	2,479.88	
Law Review	3,620.84	
Student Council	9,379.82	
United States Government Reimbursement—Books, Supplies, etc.		
Army, Navy—Medical School Program	15,954.16	
Veterans Administration Program	109,293.85	
	<u>125,248.01</u>	<u>178,164.69</u>



ACTIVITIES RELATING TO INSTRUCTIONAL DEPARTMENTS  
The George Washington University Hospital  
Hospital Patients

Private Rooms	90,064.91
Semi-Private Rooms	28,342.91
Wards	62,345.53
Delivery Rooms	6,584.00
Operating Rooms	13,168.70
X-Ray Department	15,803.30
Laboratories	21,717.20
Pathological Examinations—Frozen Sections	825.00
“ “ Tissues	2,300.00
Pharmacy	23,739.03
Supplies	2,429.75
Plasma (Schedule 10)	27.50
Community Blood Plasma Bank	1,110.00
Board of Special Nurses	3,037.00
Telephone	251.20
Other Hospital Services	6,107.25
Out Patient Department	1,371.15
Other Sources	279,224.43

Community Chest, Health Security Administration	9,659.04
Endowment Income (Schedule 10)	934.29
Gifts—Amity Relief Club (Schedule 10)	50.06
“ Cancer Clinic (Schedule 10)	35.68
“ Other (page 70)	1,268.75
Other Income	1,354.49
	118.55

Orthoptic Training

Receipts	300.00
Deferred from 1944-45	245.00
	545.00

Post Graduate Course in Ophthalmology

Receipts	6,147.74
Deferred	1,577.36
	4,570.38

Post Graduate Medical Education

Tuition	25,345.00
Gifts (page 70)	10,010.00
Deferred	22,093.12
	35,355.00
	13,261.88
	309,668.06

**CURRENT OPERATING INCOME (Continued)**  
For the Year Ended August 31, 1946

**AUXILIARY ENTERPRISES**

<b>RESIDENCE HALLS</b>		
Staughton Hall.....	18,360.42	
Strong Hall.....	28,011.30	
2025 H Street, N. W.....	2,426.95	48,798.67
<b>SORORITY HALLS</b>		
2129 G Street, N. W.....	3,905.00	
2131 G Street, N. W.....	522.50	
802 21st Street, N. W.....	2,062.50	6,490.00
<b>DINING HALLS</b>		
Cafeteria, Pinto, West Virginia.....	16,503.51	
University.....	46,944.27	63,447.78
<b>OTHER</b>		
Duplicating Bureau.....	3,346.24	
Lisner Auditorium.....	9,593.75	
Martha Washington Club.....	80.00	
Student Club.....	71,420.20	
Washington Counseling Center.....	34,605.00	119,045.19
		<u>237,781.64</u>

**NON EDUCATIONAL**

Puzzles—Gifts (page 70).....	170.00	
Deferred.....	25.00	145.00

TOTAL—EXHIBIT B.

3,546,517.99

# CURRENT OPERATING EXPENSE

For the Year Ended August 31, 1946

	TOTAL	SALARIES	OTHER EXPENSE	EQUIPMENT EXHIBIT G
<b>EDUCATIONAL AND GENERAL</b>				
<b>ADMINISTRATION AND GENERAL</b>				
President's Office.....	61,590.42	35,337.74	26,252.68	
Comptroller's Office.....	52,079.15	39,253.36	12,825.79	
Business Manager's Office..	53,020.51	20,588.10	22,886.87	9,545.54
Admissions Office.....	34,699.17	31,037.71	3,661.46	
Registrar's Office.....	22,944.38	19,125.51	3,818.87	
Adviser to Students from Foreign Countries..	589.86	400.00	189.86	
Alumni and Public Relations..	23,763.63	13,881.32	9,882.31	
Inter-American Center.....	3,229.32	2,600.00	629.32	
Personnel Departments.....	4,273.23	4,028.54	244.69	
Retirements.....	40,206.00	12,600.00	27,606.00	
University Chapels.....	292.60	243.00	49.60	
Veterans Administration..	13,047.49	11,052.43	1,995.06	
Office of Director of Activities for Men	8,907.52	5,284.02	3,623.50	
<b>TOTAL—EXHIBIT B.....</b>	<b>318,643.28</b>	<b>195,431.73</b>	<b>113,666.01</b>	<b>9,545.54</b>



# CURRENT OPERATING EXPENSE (Continued)

For the Year Ended August 31, 1946

EQUIPMENT  
EXHIBIT G

OTHER  
EXPENSE

SALARIES

TOTAL

## EDUCATIONAL AND GENERAL (Continued)

### INSTRUCTION

Junior and Columbian Colleges  
Graduate Council and School of Government  
Divisions of Secretarial Students, Special Students,  
and University Students  
Administrative Expense

Art	23,621.74	22,392.18	1,229.56	
Botany	10,757.45	7,500.00	3,257.45	
Business Administration	16,229.23	11,450.00	362.73	4,416.50
Chemistry	14,199.82	14,150.00	49.82	
Economics	38,808.12	31,935.60	6,530.73	341.79
English	22,008.31	21,959.98	48.33	
Foreign Affairs	47,586.83	47,303.49	283.34	
Foreign Service Review	1,200.00	1,200.00		
Geography	3,272.86	2,669.95	602.91	
Germanic Languages	5,515.48	5,500.00	15.48	
Graduate Council	10,315.11	10,300.00	15.11	
History	654.84	75.00	579.84	
Mathematics	19,744.27	19,568.75	175.52	
Philosophy	17,025.00	17,000.00	25.00	
Physics	2,828.22	2,815.00	13.22	
Political Science	25,138.83	24,054.00	713.99	370.84
Public Administration	17,012.02	16,950.00	62.02	
Psychology	1,500.00	1,500.00		
Romance Languages	16,366.99	15,922.75	371.49	72.75
Secretarial Studies	37,446.67	37,400.00	46.67	
Speech	4,409.78	4,200.00	209.78	
Statistics	5,663.10	5,300.00	363.10	
Zoology	9,681.96	9,615.00	66.96	
	21,226.74	13,420.00	1,945.74	5,864.00
	372,213.57	344,181.70	16,965.79	11,065.88

*Division of Extension Students*

Administration .....	2,397.99	2,035.37	362.62
Instruction .....	9,140.26	9,140.26	
	<u>11,538.25</u>	<u>11,175.63</u>	<u>362.62</u>

*Law School*

Administration .....	4,204.37	3,709.50	494.87
Instruction .....	45,708.00	45,200.00	508.00
	<u>49,912.37</u>	<u>48,909.50</u>	<u>1,002.87</u>

*School of Education*

Administration .....	2,999.27	2,850.00	149.27
Education .....	20,527.96	20,341.00	186.96
Home Economics .....	13,913.30	10,750.00	3,089.70
	<u>37,440.53</u>	<u>33,941.00</u>	<u>3,425.93</u>
			<u>73.60</u>
			<u>73.60</u>

*School of Engineering*

Administration .....	3,744.27	3,500.00	244.27
Civil .....	16,095.80	13,003.30	594.61
Electrical .....	9,390.04	8,690.00	220.23
Management .....	6,000.00	6,000.00	
Mechanical .....	15,481.05	15,175.00	237.09
	<u>50,711.16</u>	<u>46,368.30</u>	<u>1,296.20</u>
			<u>68.96</u>
			<u>3,046.66</u>

## CURRENT OPERATING EXPENSE (Continued)

For the Year Ended August 31, 1946

	TOTAL	SALARIES	OTHER EXPENSE	EQUIPMENT EXHIBIT G
INSTRUCTION (Continued)				
School of Medicine				
Administration.....	21,850.84	19,819.96	2,030.88	
Anatomy.....	13,261.71	12,340.00	481.25	440.46
Bacteriology, Hygiene, and Preventive Medicine.....	16,746.38	15,512.00	902.68	331.70
Biochemistry.....	15,289.60	14,064.00	924.10	301.50
Dermatology.....	1,100.00	1,100.00		
Medicine.....	21,792.82	21,440.01	352.81	
Neurology.....	3,758.54	3,435.83	322.71	
Obstetrics and Gynecology.....	11,993.37	11,835.00	158.37	
Ophthalmology.....	1,988.60	1,725.00	263.60	
Oto-rhino-laryngology.....	1,850.00	1,850.00		
Pathology.....	27,976.75	26,415.66	1,322.61	238.48
Pediatrics.....	4,519.00	4,400.00	119.00	
Pharmacology.....	12,284.78	11,493.36	541.42	250.00
Physiology.....	17,137.14	15,803.25	930.34	403.55
Post Graduate Medical Education.....	2,500.00	2,500.00		
Psychiatry.....	2,025.00	2,025.00		
Research—General.....	8,735.63	1,816.00	6,919.63	
Surgery.....	10,811.20	10,708.32	102.88	
Urology.....	1,154.36	1,150.00	4.36	
	<u>196,775.72</u>	<u>179,433.39</u>	<u>15,376.64</u>	<u>1,965.69</u>



School of Pharmacy	Administration.....	1,074.93	977.74	97.19	
	Instruction.....	8,504.06	8,089.96	341.25	72.85
		<u>9,578.99</u>	<u>9,067.70</u>	<u>438.44</u>	<u>72.85</u>
Summer Sessions	Administration.....	1,181.45	1,000.00	181.45	
	Instruction.....	124,652.31	121,808.76	2,644.63	198.92
		<u>125,833.76</u>	<u>122,808.76</u>	<u>2,826.08</u>	<u>198.92</u>
Physical Education	Men.....	12,817.60	10,226.25	2,591.35	
	Women.....	21,163.36	18,249.67	2,913.69	
		<u>33,980.96</u>	<u>28,475.92</u>	<u>5,505.04</u>	
TOTAL INSTRUCTION—EXHIBIT B.....		887,985.11	824,361.90	47,199.61	16,423.60
ORGANIZED RESEARCH* (Schedule 10)—EXHIBIT B.....		1,100,599.73	640,269.89	460,329.84	

## CURRENT OPERATING EXPENSE (Continued)

For the Year Ended August 31, 1946

	TOTAL	SALARIES	OTHER EXPENSE	EQUIPMENT EXHIBIT G
<b>EDUCATIONAL AND GENERAL (Continued)</b>				
<b>LIBRARIES</b>				
Books .....	9,526.32			9,526.32
Other Expense .....	32,890.19	30,435.27	2,379.56	75.36
<b>Total—Exhibit B .....</b>	<b>42,416.51</b>	<b>30,435.27</b>	<b>2,379.56</b>	<b>9,601.68</b>
 <b>MAINTENANCE AND OPERATION OF PLANT*—EXHIBIT B .....</b>	 <b>197,656.57</b>	 <b>113,042.43</b>	 <b>84,614.14</b>	
 <b>OTHER EXPENSE</b>				
Alumni Dues .....	797.00		797.00	
Student Activities				
Cue and Curtain .....	7,477.09	356.25	7,120.84	
Health Administration .....	9,495.77	7,887.42	1,608.35	
Law Review .....	5,005.85	800.00	4,205.85	
Men's Athletics .....	8,937.44	6,733.28	2,204.16	
Student Council Accounts .....	19,165.42		19,165.42	
University Accounts .....	2,454.72	2,000.00	454.72	
United States Government				
Army, Navy—Medical Students' Expenses .....	14,594.78		14,594.78	
Veterans Administration—Veterans' Expenses .....	100,498.96	1,174.80	99,324.16	
Office of Scientific Research and Development				
Overhead Charges on Contract OENR-273 .....	1,031.81		1,031.81	
<b>Total—Exhibit B .....</b>	<b>169,458.84</b>	<b>18,951.75</b>	<b>150,507.09</b>	

ACTIVITIES RELATING TO INSTRUCTION  
The George Washington University Hospital

Administration.....	44,866.46	20,011.91	24,854.55
Medical and Surgical Care.....	18,599.99	3,068.73	15,531.26
Nursing Care.....	94,585.08	94,585.08	
Laboratories.....	9,976.07	8,352.46	1,623.61
Pharmacy.....	14,658.53	1,899.96	12,758.57
X-Ray.....	14,348.90	11,922.45	2,426.45
Out-Patient Department.....	6,526.54	6,483.57	42.97
Dietary.....	49,332.92	15,205.47	34,127.45
Laundry.....	13,132.13		13,132.13
Medical Records and Library.....	1,844.00	1,800.00	44.00
Housekeeping.....	12,629.94	9,265.10	3,364.84
Heat, Light, Power.....	5,096.68		5,096.68
Maintenance of Building.....	3,257.17	2,092.50	1,164.67
Yard Service.....	1,220.00	1,220.00	
	<u>290,074.41</u>	<u>175,907.23</u>	<u>114,167.18</u>
Orthoptic Training.....	545.00	545.00	
Post-Graduate Medical Education.....	13,261.88	7,895.50	5,366.38
Post-Graduate Course in Ophthalmology.....	4,570.38	2,465.00	2,105.38
TOTAL—EXHIBIT B.....	<u>308,451.67</u>	<u>186,812.73</u>	<u>121,638.94</u>



# CURRENT OPERATING EXPENSE (Continued)

For the Year Ended August 31, 1946

## AUXILIARY ENTERPRISES

	TOTAL	SALARIES	OTHER EXPENSE	EQUIPMENT EXHIBIT G
<b>RESIDENCE HALLS</b>				
Staughton Hall.....	11,015.61	6,898.70	3,623.11	493.80
Strong Hall.....	33,008.86	10,502.26	22,506.60	
2025 H Street, N. W.....	3,750.36		757.52	2,992.84
	<u>47,774.83</u>	<u>17,400.96</u>	<u>26,887.23</u>	<u>3,486.64</u>
<b>SORORITY HALLS</b>				
2129 G Street, N. W.....	1,274.45	240.00	1,034.45	
802 21st Street, N. W.....	1,110.85	180.00	930.85	
	<u>2,385.30</u>	<u>420.00</u>	<u>1,965.30</u>	
<b>DINING HALLS</b>				
Cafeteria, Pinto, West Virginia University.....	16,156.62	6,332.47	9,824.15	
	<u>42,916.69</u>	<u>17,599.11</u>	<u>25,317.58</u>	
	<u>59,073.31</u>	<u>23,931.58</u>	<u>35,141.73</u>	
<b>OTHER</b>				
Auditorium.....	12,878.92	6,415.33	6,463.59	
Duplicating Bureau.....	1,920.43	684.83	1,235.60	
Student Club.....	57,537.07	13,195.45	43,913.62	428.00
Washington Counseling Center.....	24,056.83	22,371.09	1,412.41	273.33
	<u>96,393.25</u>	<u>42,666.70</u>	<u>53,025.22</u>	<u>701.33</u>
<b>TOTAL—EXHIBIT B</b>	<u>205,626.69</u>	<u>84,419.24</u>	<u>117,019.48</u>	<u>4,187.97</u>

# NON EDUCATIONAL

INTEREST ON NOTES PAYABLE.....	29,266.33	.....	29,266.33
PRIZES—Awarded from gifts received (page 71).....	145.00	.....	145.00
SCHOLARSHIPS.....	11,272.67	.....	11,272.67
TOTAL—EXHIBIT B.....	<u>40,684.00</u>	.....	<u>40,684.00</u>
TOTAL EXPENSE—EXHIBIT B.....	3,271,522.40	2,093,724.94	<u>1,138,038.67</u>
			<u>39,758.79</u>

\*Less general overhead, administrative, and/or maintenance expense apportioned as follows:

Organized Research	
Office of Scientific Res. and Development	50,000.00
Contract OJ.Msr-273.....	587.50
Contract OJ.Mcmr-464.....	4,750.00
Pharmacy Research Accounts.....	5,355.22
Quartermaster Corps, Contract 329.....	6,727.13
Quartermaster Corps, Contract 675.....	67,419.85
Federal Public Housing Authority.....	966.48
University Hospital.....	<u>20,000.00</u>
	88,386.33

TOTAL EXPENSE, ADJUSTED—EXHIBIT B.....	<u>3,183,136.07</u>
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# MISCELLANEOUS ASSETS AND LIABILITIES

August 31, 1946

## ACCOUNTS RECEIVABLE

Veterans Administration—Veterans' Tuition, Books, Supplies	391,455.65
Regular Students—Tuition and Other Fees	4,017.76
Promotion Expense	27,910.69
Federal Public Housing Authority—Furniture	1,188.10
Law School Expansion Fund Committee	948.20
Loans to Veterans	1,219.00
Washington Counseling Service	3,060.00
United States Government	
Office of Scientific Research and Development (including \$50,000 withheld pending adjustment of overhead charges)	82,752.38
Quartermaster Corps	30,514.33
United States Army	456.66
United States Navy	1,212.29
	<u>544,735.06</u>

## PREPAID EXPENSE

Supplies—Dining Room	772.00
" Duplicating Bureau	180.00
" Stockroom	39,492.00
" Student Club	10,480.00
Microscopes	5,284.20
Miscellaneous	2,125.00
	<u>58,333.20</u>

## NOTES PAYABLE—Riggs National Bank

Due September 26, 1946; interest 3%	50,000.00
Due September 27, 1946; interest $3\frac{1}{2}\%$	100,000.00
Due September 30, 1946; interest 3%	50,000.00
Due October 7, 1946; interest 3%	100,000.00
Due November 27, 1946; interest 3%	100,000.00
	<u>400,000.00</u>

## DEFERRED INCOME AND DEPOSITS

Gift—Prize	25.00
Library Deposits	35.00
Orthoptic Training	80.18
Post-Graduate Course in Ophthalmology	5,145.85
Post-Graduate Medical Education	22,093.12
Student Council—Book Exchange	184.92
Student Fees	8,145.00
	<u>35,709.07</u>



# ASSETS OF LOAN FUNDS

August 31, 1946

	TOTAL	CASH	LOANS RECEIVABLE
D.C.—D.A.R. Loan Fund.....	2,294.57	2,056.57	238.00
George Washington Law Association Loan Fund.....	768.00	768.00	
Home Economics Loan Fund.....	244.35	244.35	
Kellogg Medical School Loan Fund.....	15,275.52	4,410.03	10,865.44
Kellogg Medical Technology Loan Fund.....	2,000.00	2,000.00	
Maripan Loan Fund.....	250.00	182.00	68.00
Student Loan Fund.....	8,060.24	7,388.41	671.83
Sutherland Medical School Loan Fund.....	1,175.00	1,175.00	
War Loan Fund.....	13,788.77		13,788.77
TOTALS—EXHIBIT A.....	43,856.45	18,224.41	25,632.04

ASSETS OF ENDOWMENT FUNDS—CONTROLLED BY THE UNIVERSITY  
August 31, 1946  
CONSOLIDATED ENDOWMENT FUNDS

BONDS	DESCRIPTION	%	DUE	VALUE		
				PAR	MARKET	BOOK
American Telephone and Telegraph Co.	Convertible Debenture	3	1956	10,000	14,100.00	10,705.00
Atchison, Topeka and Santa Fe Ry. Co.	General Mortgage	4	1995	2,000	2,660.00	1,970.00
Baltimore and Ohio R. R. Co., Pittsburgh, Lake Erie and W. Va. System	Refunding Mortgage	4	1951	5,000	5,000.00	5,072.00
Capital Transit Co.	First and Refunding Mortgage A.	4	1964	8,000	8,480.00	8,000.00
Cities Service Co.	Debenture	5	1950	5,000	5,150.00	4,413.20
Great Northern Railway Co.	General Mortgage D	4½	1976	25,000	32,250.00	25,225.00
Liggitt and Myers Tobacco Co.	Debenture	5	1951	12,000	14,280.00	12,614.00
New York Central Railroad Co.	Refunding and Improvement A.	4½	2013	30,000	25,800.00	24,750.00
Pennsylvania Railroad Co.	General Mortgage E.	4½	1984	25,000	30,500.00	26,739.00
Pennsylvania Railroad Co.	Consolidated Mortgage	4½	1960	1,000	1,270.00	1,028.00
United States of America	Treasury Bonds	2½	1959-62	50,000	51,000.00	50,000.00
United States of America	"	2½	1949-53	100	105.00	100.00
United States of America	"	2½	1967-72	10,000	10,300.00	10,000.00
United States of America	Savings Bonds, Series G	2½	10-1-54	25,000	21,804.00	23,000.00
United States of America	"	2½	11-1-54	47,000	44,556.00	47,000.00
United States of America	"	2½	1-1-55	17,000	16,116.00	17,000.00
United States of America	"	2½	4-1-55	36,500	34,711.50	36,500.00
United States of America	"	2½	9-1-55	41,100	39,291.60	40,880.00
United States of America	"	2½	10-1-55	7,500	7,170.00	7,456.00
United States of America	"	2½	2-1-56	9,000	8,604.00	9,000.00
United States of America	"	2½	2-1-58	10,000	9,880.00	10,000.00
United States of America	"	2½	7-1-58	35,000	35,000.00	35,000.00
United States of America	"	2½	8-1-56	200	149.80	149.80
Washington Gas Light Co.	General Mortgage	2.33	1960	6,000	7,740.00	6,549.00
West Shore Railroad Co.	Guaranteed First Mortgage	4	2361	26,000	21,840.00	22,620.00
					447,757.90	435,771.00

STOCKS—PREFERRED

	STOCKS—PREFERRED	%	SHARES			
American Brake Shoe Co.	Cumulative Convertible	5 1/4	180	23,940.00	23,016.00	
American Cyanamid Co.	"	5	900	9,900.00	10,732.50	
American Smelting and Refining Co.	"	7	120	22,200.00	17,496.70	
American Viscose Corporation	"	5	150	17,550.00	16,125.00	
Appalachian Electric Power Co.	"	4 1/2	100	11,600.00	10,600.00	
Atchafon, Topeka and Santa Fe Ry. Co.	Non Cumulative	5	60	7,020.00	5,987.50	
Cleveland and Pittsburgh R. R. Co.	Guaranteed	7	100	10,300.00	8,500.00	
Corning Glass Works	Cumulative	3 1/2	240	25,920.00	24,000.00	
Detroit, Hillsdale and S. W. R. R. Co.	Guaranteed	4	163	11,573.00	10,432.00	
General Motors Corporation	\$5 Cumulative		100	12,700.00	12,525.25	
Gold and Stock Telegraph Co.	Guaranteed	6	100	14,400.00	11,700.00	
Hecht Co.	Cumulative	3 3/4	50	5,400.00	5,150.00	
International Harvester Co.	Cumulative	7	100	19,800.00	18,204.43	
May Department Stores Company	\$3.75 Cumulative		200	21,800.00	20,700.00	
McKesson and Robbins, Inc.	\$4 Cumulative		100	10,700.00	9,835.34	
Merck and Co., Inc.	\$3.50 Cumulative		105	11,550.00	10,497.50	
Oliver Corporation	Cumulative Convertible	4 1/2	200	21,600.00	21,520.34	
Pennsylvania Electric Co.	Cumulative	3.70	200	21,400.00	20,500.00	
Potomac Electric Power Co.	"	6	2	220.00	214.25	
R. J. Reynolds Tobacco Co.	"	3.60	100	10,600.00	10,017.84	
Sterling Drug, Inc.	"	3 1/2	200	21,600.00	20,500.00	
				311,273.00	288,254.65	



# ASSETS OF ENDOWMENT FUNDS—CONTROLLED BY THE UNIVERSITY (Continued)

August 31, 1946

## CONSOLIDATED ENDOWMENT FUNDS (Continued)

STOCKS—COMMON	SHARES	VALUE	
		MARKET	BOOK
Allis Chalmers Manufacturing Co.	500	21,000.00	21,347.00
American Gas and Electric Co.	300	13,200.00	12,092.56
Capital Transit Co.	27	1,053.00	2,835.00
Chrysler Corporation	100	10,500.00	11,500.25
Commonwealth Edison Co.	640	20,480.00	18,190.00
Continental Can Co.	31	1,302.00	2,375.38
Continental Illinois National Bank and Trust Co.	270	27,540.00	16,945.31
Continental Oil Co. of Delaware	210	8,190.00	9,454.95
General Electric Co.	100	4,300.00	5,405.00
General Motors Corporation	500	30,500.00	26,523.75
Goodyear Tire and Rubber Co.	200	12,800.00	9,411.57
International Harvester Co.	200	17,400.00	17,181.75
International Nickel Co. of Canada, Ltd.	200	6,400.00	12,035.25
Kennecott Copper Corporation	300	14,700.00	18,227.50
Mergenthaler Linotype Co.	6	390.00	588.00
National City Bank of New York	39	1,833.00	3,517.04
New York Air Brake Co.	200	10,000.00	8,646.84
Phelps Dodge Corporation	200	7,400.00	7,857.25
R. J. Reynolds Tobacco Co.—Non-voting B.	100	4,000.00	5,112.50
Riggs National Bank	13	4,927.00	4,875.00
Security Storage Co.	67	6,901.00	5,058.50
Socony-Vacuum Co.	1,500	24,000.00	23,687.16
Southern Pacific Co.	50	2,700.00	1,525.00
Standard Oil Co. of California	300	16,500.00	11,796.85
		268,216.00	256,189.41

# TRUST NOTES RECEIVABLE

	%	Due	
Snow, Chester A.—Secured by lot 77, square 162.....	4½	8,000.00	8,000.00
Wollberg, Ben—Secured by lot 9, square 16.....	4	3,500.00	3,500.00
		<u>11,500.00</u>	<u>11,500.00</u>

## REAL ESTATE

Strong Hall—620 21st Street, N. W. Lots 19-20-81-819, square 80.....	239,319.42	239,319.42
CASH.....	16,857.44	16,857.44
	<u>1,294,923.76</u>	

TOTAL { Consolidated Endowment Funds.....	1,208,499.93	
{ Reserve for Protection of Consolidated Endowment Funds Investments.....	39,391.99	
	<u>1,247,891.92</u>	

# ASSETS OF ENDOWMENT FUNDS—CONTROLLED BY THE UNIVERSITY (Continued)

August 31, 1946

## SCOTTISH RITE FUND

BONDS	DESCRIPTION	DUE % 1980	VALUE		
			PAR	MARKET	BOOK
American Telephone and Telegraph Co.	Debenture	2½	25,000	25,750.00	25,000.00
Capital Transit Co.	First and Refunding Mortgage A.	4	10,000	10,600.00	10,000.00
Central Illinois Light Co.	First and Consolidated Mortgage	3½	20,000	21,800.00	20,744.00
Cities Service Co.	Debenture	5	15,000	15,450.00	13,239.57
Cleveland Union Terminals Co.	First Mortgage Sinking Fund C.	4½	24,000	25,200.00	23,460.00
Lexington and Eastern Railway Co.	First Mortgage	5	12,000	15,720.00	13,084.00
Lidgett and Myers Tobacco Co.	Debenture	5	3,000	3,570.00	3,155.00
Nebraska Power Co.	First Mortgage	4½	12,000	12,840.00	12,947.00
New England Telephone & Telegraph Co.	First Mortgage A.	5	15,000	16,650.00	15,368.00
Northern Pacific Railway Co.	Prior Lien Railway and Land Grant.	4	25,000	28,750.00	27,020.00
Protestant Episcopal Cathedral Foundation of D. C.	Treasury Bonds	3½	10,000	10,000.00	10,028.00
United States of America	"	2	103,000	106,090.00	103,000.00
United States of America	"	2	20,000	20,600.00	20,000.00
United States of America	"	2½	25,000	25,800.00	25,000.00
United States of America	"	2½	25,000	25,750.00	25,000.00
United States of America	Savings Bonds, Series G	2½	50,000	47,350.00	50,000.00
United States of America	"	2½	100,000	94,800.00	100,000.00
United States of America	"	2½	100,000	94,800.00	100,000.00
United States of America	"	2½	1,000	956.00	1,000.00
Washington Gas Light Co.	General Mortgage	5	4,000	5,160.00	4,659.00
West Shore Railroad Co.	Guaranteed First Mortgage	4	14,000	11,760.00	12,355.00
				<u>619,096.00</u>	<u>615,059.57</u>



## STOCKS—PREFERRED

	%	SHARES			
American Viscose Corporation.....	5	150	17,550.00	16,125.00	
Dresser Industries, Inc.....	3½	200	21,600.00	20,600.00	
Federated Department Stores, Inc.....	4½	100	10,500.00	9,895.00	
Goodyear Tire and Rubber Co.....	3½	100	10,700.00	10,960.34	
Hecht Co.....	3¾	150	16,200.00	15,450.00	
International Harvester Co.....	7	50	9,650.00	9,124.08	
Le Tourneau, R. G., Inc.....		200	21,200.00	20,900.00	
McKesson and Robbins, Inc.....		100	10,700.00	9,860.25	
Montgomery Ward and Co.....		100	20,300.00	20,535.65	
Pacific Telephone and Telegraph Co.....	6	100	17,600.00	17,910.37	
Philip Morris and Co., Ltd., Inc.....	4	138	14,766.00	14,007.00	
R. J. Reynolds Tobacco Co.....	3.60	200	21,200.00	20,018.77	
			<u>191,966.00</u>	<u>185,386.46</u>	

## STOCKS—COMMON

Cincinnati Milling Machine Co.....	500	14,500.00	18,609.10
Commonwealth Edison Co.....	800	25,600.00	21,995.00
Continental Oil Co. of Delaware	500	19,800.00	15,725.25
General Electric Co.....	400	17,200.00	17,210.00
Goodyear Tire and Rubber Co.....	200	12,800.00	9,649.34
International Nickel Co. of Canada, Ltd.	300	9,900.00	13,032.50
Montgomery Ward and Co.....	750	57,000.00	32,577.25
Riggs National Bank.....	125	47,375.00	32,625.00
Standard Oil Co. of California.	100	5,500.00	2,600.00
Standard Oil Co. of New Jersey.....	500	36,500.00	37,878.44
Underwood Corporation.....	300	18,300.00	20,940.19
Union Carbide and Carbon Corporation.	300	30,300.00	25,122.50
		<u>294,475.00</u>	<u>247,964.57</u>

## CASH.

	9,104.40	9,104.40
	<u>1,114,641.40</u>	

TOTALS { Scottish Rite Fund.....	1,000,000.00
{ Reserve for Protection of Scottish Rite Fund Investments .....	57,515.00
	<u>1,057,515.00</u>

ASSETS OF ENDOWMENT FUNDS—CONTROLLED BY THE UNIVERSITY (Continued)

August 31, 1946

SUMMARY OF ASSETS OF ENDOWMENT FUNDS—CONTROLLED BY THE UNIVERSITY

INVESTMENTS								
Funds	Total Assets	Cash	Total	Bonds	Stocks		Trust Notes	Real Estate
					Preferred	Common		
Consolidated.....	1,247,891 92	16,857 44	1,231,034 48	435,771 00	288,254 65	256,189 41	11,500 00	239,319 42
Scottish Rite.....	1,057,515 00	9,104 40	1,048,410 60	615,059 57	185,386 46	247,964 57		
Total—Exhibit A	2,305,406 92	25,961 84	2,279,445 08	1,050,830 57	473,641 11	504,153 98	11,500 00	239,319 42

# ASSETS OF ENDOWMENT FUNDS—CONTROLLED BY OTHER TRUSTEES

August 31, 1946

FUNDS	TRUSTEES	
Andrews Scholarship Fund.....	American Security and Trust Co.....	5,000.00
Fry Professorship Fund.....	National Savings and Trust Co.....	98,405.62
Harvey Scholarship Fund.....	Washington Loan and Trust Co.....	5,031.97
Sanders Fellowship Fund.....	National Savings and Trust Co.....	212,788.31
Sharpe Medical School Fund.....	National Savings and Trust Co.....	8,234.53
Spencer Scholarship Fund.....	Northern Trust Co., Chicago.....	7,434.20
TOTAL—EXHIBIT A.....		<u>336,894.63</u>



# ASSETS OF PLANT FUNDS—UNEXPENDED

August 31, 1946

## PAIRO FUND

		VALUE	
		MARKET	BOOK
BONDS			
Morris and Essex Railroad Co.	First and Refunding Mortgage	6,000	4,080.00
Southern Pacific Co. (Oregon Lines)	First Mortgage A	5,000	5,300.00
United States of America	Treasury Bonds	1964-69	506.00
United States of America	Savings Bonds, Series G	700	662.90
United States of America	"	2-1-54	500.00
United States of America	"	11-1-56	300.00
		11,327.10	11,798.00
STOCKS—COMMON			
American Security and Trust Co.	SHARES		
Capital Transit Co.	20	6,760.00	8,220.00
Morgenthaler Linotype Co.	200	7,800.00	14,400.00
National Bank of Washington	150	9,750.00	15,806.25
National City Bank of New York	100	17,000.00	25,500.00
Pennroad Corporation	61	2,867.00	2,928.00
Riggs National Bank	100	700.00	1,300.00
Union Trust Co.	52	19,708.00	19,695.00
Union Trust Co.	100	16,200.00	31,100.00
		80,785.00	118,949.25
TRUST NOTES RECEIVABLE			
Hungerford, William C. and Lillian E.—Secured by tract in Germantown, Md.	%	Due	
Due \$20 per month including interest	6	Monthly	249.38
Woodson, H. D.—Secured by lot 159, square 1026	5½	10-7-37	1,154.37
			1,403.75
		23,557.66	23,557.66
CASH			
		117,075.51	155,708.66
TOTALS			

# CONSOLIDATED PLANT FUNDS

BONDS		%	DUE	PAR					
United States of America	Certificates of Indebtedness	7 1/2	3-1-47	100,000.00	100,018.00	100,000.00			
	Savings Bonds, Series G	2 1/2	11-1-54	3,000	2,844.00	3,000.00			
	" " " G	2 1/2	10-1-55	1,000	956.00	1,000.00			
	" " " G	2 1/2	10-1-57	1,700	1,679.60	1,700.00			
United States of America	" " " D	2 1/2	1-1-50	10,000	8,700.00	8,700.00			
		2.9			114,197.60	114,400.00			
STOCK—COMMON									
Commonwealth and Southern Corporation	STOCKS								
				25	100.00	28.13			
CASH					67,531.40	67,531.40			
TOTALS					181,829.00	181,959.53			

## GEORGE WASHINGTON MEMORIAL FUND

BOND		%	DUE	PAR					
United States of America	Savings Bond, Series D	2.9	1-1-50	10,000	8,700.00	8,700.00			
					978.56	978.56			
TOTALS					9,678.56	9,678.56			

## SUMMARY OF ASSETS OF PLANT FUNDS—UNEXPENDED

FUNDS	Total Assets	Cash	INVESTMENTS		
			Total	Bonds	Common Stocks
Consolidated Plant Funds	181,959.53	67,531.40	114,428.13	114,400.00	28.13
George Washington Memorial Fund	9,678.56	978.56	8,700.00	8,700.00	
Pairo Fund	155,708.66	23,557.66	132,151.00	11,798.00	118,949.25
TOTAL—EXHIBIT A	347,346.75	92,067.62	255,279.13	134,898.00	118,977.38
					1,403.75

# LAND AND BUILDINGS—INVESTED IN PLANT

For the Year Ended August 31, 1946

Building or Location	Subject to Trust or Note Payable	Lot	Square	Year Acquired or Erected	Balance August 31, 1945	Additions	Balance August 31, 1946
Biological Sciences Building	A	45	102	1914-35	151,129.97		151,129.97
Corcoran Hall	B	43	102	1919-24	327,481.92		327,481.92
Field House Site		5-13-15-17-19 24-25-26-27-28 800-801-802 805 thru 821 823-828-829 830-834-836 838-839-842					
Gymnasium	A	825-826	56	1936-44	238,660.00		238,660.00
Hall of Government		47-800-801	102	1924-25	58,331.44		58,331.44
Hospital (new) (deposit)		Entire square	79	1918-38	239,035.63		239,035.63
Liner Auditorium		A B-17-46-52 820 thru 827 829 thru 833	54	1945	100,000.00		100,000.00
Lisner Hall	A	833	79	1929-41	822,409.91	1,573.00	823,982.91
Mechanical Laboratory		815-816-817	102	1912-39	372,230.19		372,230.19
Pharmacology Laboratory	C	27-28-816-817	102	1923-30	57,583.87		57,583.87
School of Medicine and Hospital	D	43	79	1944	43,744.88	15,020.73	58,765.61
Shop, Stockroom		53	250	1882-1932	995,706.34		995,706.34
Social Sciences Building	A	24-25-28-29-30 31-32-800-801	101	1943	14,649.33	12,111.91	26,761.24
Sorority Hall—2129 G Street, NW		805	102	1922-36	269,279.60		269,279.60
Sorority Hall—2131 G Street, NW		8	79	1936	36,989.72		36,989.72
Sorority Hall—802 21st Street, NW		35	79	1935	25,500.00		25,500.00
Stoughton Hall		834-835	77	1938	51,000.00		51,000.00
Stockroom Hall		834-835	79	1943	279,525.93		279,525.93



[illegible]

# LAND AND BUILDINGS—INVESTED IN PLANT (Continued)

For the Year Ended August 31, 1946

Building or Location	Subject to Trust Note Payable	Lot	Square	Year Acquired or Erected	Balance August 31, 1945	Additions	Balance August 31, 1946
I Street, NW—2012.....	E	830	101	1945	.....	25,000.00	25,000.00
" " 2014.....	E	829	101	1945	.....	25,000.00	25,000.00
" " 2018.....	E	21	101	1946	.....	50,000.00	50,000.00
" " 2038.....	.....	840	101	1942	10,000.00	.....	10,000.00
" " 2138.....	.....	825	77	1945	250.00	4,750.00	5,000.00
" " 2304-06-08-10-10 1/2-12.....	F	34-35-822-823-824	41	1945	72,250.00	.....	72,250.00
Pennsylvania Avenue, NW—2100.....	G	800-801-840	75	1945	.....	103,000.00	103,000.00
20th Street, NW—700.....	.....	26	102	1931	17,500.00	.....	17,500.00
" " 712.....	A	42	102	1929	14,240.00	.....	14,240.00
" " 714.....	A	41	102	1930	14,500.00	.....	14,500.00
" " 716.....	A	40	102	1929	13,500.00	.....	13,500.00
" " 718.....	.....	828-830	102	1929	20,000.00	.....	20,000.00
21st Street, NW—606-608.....	.....	21-22	80	1935	12,500.00	.....	12,500.00
" " 713.....	A	807	102	1931	12,000.00	.....	12,000.00
" " 714.....	.....	46	79	1931	40,000.00	.....	40,000.00
" " 715.....	A	808	102	1929	12,000.00	.....	12,000.00
" " 716.....	A	830-831	79	1933	8,885.00	.....	8,885.00
" " 718.....	.....	829	79	1939	16,422.00	.....	16,422.00
" " 810.....	.....	840	77	1938	9,000.00	.....	9,000.00
" " 814.....	.....	840	77	1944	13,000.00	.....	13,000.00

22nd Street, NW-715	24	79	1939	8,190.00	8,190.00
" 717	25	79	1940	10,143.00	10,143.00
" 725	812-813	79	1938	8,750.00	8,750.00
" 727	814	79	1937	4,750.00	4,750.00
" 731	34	79	1945	7,600.00	7,600.00
" 806	800	55	1945	500.00	8,500.00
" 808	C	55	1946	14,000.00	14,000.00
" 830	830	55	1945	500.00	6,500.00
23rd Street, NW-706	827	42	1942	3,675.00	3,675.00
" 716	825	42	1944	7,425.00	7,425.00
" 734	819	42	1942	4,500.00	4,500.00
" 736	818	42	1942	3,000.00	3,000.00
" 822 824-826-828	21-22-23-24	41	1945	35,108.00	35,108.00
24th Street, NW 803-805	809-810	41	1945	250.00	3,150.00
" 807	811	41	1945	200.00	3,750.00
Deposits			1946	8,500.00	8,500.00
TOTAL-EXHIBIT A				4,895,559.36	5,293,573.00
				398,013.64	



TRUST NOTES PAYABLE

August 31, 1946

SECURED BY LAND AND BUILDINGS	PAYEE AND DATE DUE	INTEREST RATE	PRINCIPAL
A	Riggs National Bank Due September 23, 1946.....	4%	76,250.00
	WASHINGTON LOAN AND TRUST Co. Due \$4,000 December 14, 1946; \$180,000 December 14, 1947.....	4%	184,000.00
B	Due March 28, 1947.....	4%	25,000.00
C	Due February 21, 1950.....	4%	100,000.00
D	Due April 30, 1951.....	4%	60,000.00
E	Due August 17, 1948.....	4%	45,000.00
F	Due February 11, 1949.....	4%	60,000.00
G			
	AMERICAN SECURITY AND TRUST Co. Due December 17, 1948.....	4%	110,000.00
H			
I	HANNAH SEAQUIST Due \$5,000 each September 7, beginning September 7, 1946.....	4%	15,000.00
	TOTAL—EXHIBIT A.....		675,250.00

**EQUIPMENT—INVESTED IN PLANT**  
For the Year Ended August 31, 1946

	BALANCE August 31, 1945	ADDITIONS 1945-46	BALANCE August 31, 1946
Administration.....	61,715.13	9,818.87	71,534.00
Arts and Sciences.....	88,809.28	11,538.40	100,147.68
Duplicating Bureau.....	1,774.50		1,774.50
Gymnasium.....	2,927.37		2,927.37
Hospital—1339 H Street, N. W.....	45,512.82		45,512.82
Hospital—Washington Circle.....		12,056.84	12,056.84
Law School.....	1,739.63		1,739.63
Library Books.....			
Arts and Sciences.....	77,618.87	5,400.25	83,019.12
Law School.....	60,726.48	3,242.47	63,968.95
School of Medicine.....	15,118.42	987.02	16,105.44
School of Pharmacy.....	1,831.47		1,831.47
Lisner Auditorium.....	85,975.63	75.36	85,975.63
Lisner Hall.....	24,567.19		24,642.55
Mechanical Laboratory.....	36,989.31	3,046.66	40,035.97
Residence Hall—2025 H Street, N. W.....		2,992.84	2,992.84
School of Medicine.....	58,380.81	1,965.69	60,346.50
School of Pharmacy.....	6,413.18	72.85	6,486.03
Staughton Hall.....	9,970.36	493.80	10,464.16
Strong Hall.....	18,117.63		18,117.63
Student Club.....	7,302.08	428.00	7,730.08
	<u>605,490.16</u>	<u>51,919.05</u>	

TOTAL—EXHIBIT A ..... 657,409.21

**CURRENT FUNDS RESTRICTED—UNEXPENDED**  
For the Year Ended August 31, 1946

MISCELLANEOUS FUNDS	Balance August 31, 1945	Receipts	Disbursements		Balance August 31, 1946 Exhibit C
<b>SCHOLARSHIP AND FELLOWSHIP</b>					
American Foundation—Pharmaceutical	400.00	400.00	Scholarships.....	200.00	600.00
Educational Scholarships		250.00	"	245.00	5.00
Bowden Scholarship		224.00			1,008.00
Dorsey, Charles W.—Scholarship	784.00	300.00	Fellowships.....	428.33	479.70
Drs. Freeman and Watts—Fellowships	608.03		Scholarships	300.00	800.00
Kellogg Medical Technology Scholarships	1,100.00		To Schedule 11.....	250.00	
Mariposa Scholarships	250.00	1,600.00			1,600.00
Pitts Foundation Scholarships					6.00
United Airlines Scholarships	6.00				
<b>PRIZE</b>					
Kane Prize.....	50.75		Prizes.....	42.12	8.63
<b>LECTURE</b>					
Dorsey, Harryman—Public Law Lectures	1,000.00		Lectures.....	496.87	503.13
Howard, Frank—Lectures		6,029.69		726.35	5,303.34
<b>LIBRARY BOOKS</b>					
Butler, Henry F.	50.00		To Schedule 13.....	50.00	
Class of 1945	58.75		"	58.75	
Council of Religious Organizations	503.21		"	503.21	
Davis, Harry C.	25.00		"	25.00	
Hellenic Society	205.00		"	205.00	
Lincoln Arc Welding Foundation	100.00		"	100.00	
Society of Sigma Xi	3.19		"	3.19	



<b>HOSPITAL—EQUIPMENT</b>				
Dermatology.....	600.00		To Schedule 13.....	600.00
General.....	20.00		" " " ".....	20.00
Ophthalmology.....	105.00		" " " ".....	105.00
Physical Therapy.....	26,981.26		" " " ".....	26,981.26
<b>HOSPITAL—DEFERRED INCOME</b>				
Amity Relief Club.....	68.04		To Schedule 1.....	17.98
Cancer Clinic.....	582.75		" " " ".....	547.07
Plasma Bank Deposits.....	451.93		" " " ".....	424.43
<b>HOSPITAL—MISCELLANEOUS</b>				
Kimmel Hospital Fund.....	3,071.70		To Schedule 12.....	3,071.70
<b>OTHER</b>				
Administrative Reserve.....	3.18			3.18
Key Deposits.....	414.25	273.75	Refunds.....	357.75
University Press—"The Supreme Court".....	82.94			82.94
	37,524.98	9,077.44		34,855.27
				11,747.15

**CURRENT FUNDS RESTRICTED—UNEXPENDED (Continued)**  
For the Year Ended August 31, 1946

ORGANIZED RESEARCH FUNDS	Balance August 31, 1945	Receipts	DISBURSEMENTS			Balance August 31, 1946 Exhibit C
			Salaries	Other Expense	Total Schedules 1 and 2	
Department of Chemistry—Lederle Laboratories....	613.51	750.00	900.00	387.92	1,287.92	75.59
School of Medicine.....						
Baxter Laboratories.....	873.88	6,600.00	4,425.00	228.01	4,653.01	2,820.87
Bihuber-Koell Corporation.....		1,000.00	400.00	313.74	713.74	286.26
Cardiology Fund.....	1,754.65		400.00	(-1.13)	398.87	1,355.78
Cordia Company.....	3,717.14	1,800.00	152.50	19.26	171.76	5,545.18
Helen F. Hutchins Fund.....	223.09					223.09
Johnson and Johnson Surgery Fund.....	1,310.00					1,310.00
Lederle Laboratories—Merck and Co.....	8,324.80	10,200.00	7,806.62	788.51	8,595.13	9,979.67
Milbank Memorial Fund.....	2,398.06		2,000.00	352.28	2,352.28	245.78
National Health Clinic.....	181.40	595.15		300.00	300.00	476.55
National Cancer Institute—Grant 267.....		2,100.00				2,100.00
National Cancer Institute—Grant 276.....		2,500.00	280.00		280.00	2,220.00
Winthrop Chemical Fund.....		1,150.00		525.99	525.99	624.01
School of Pharmacy.....						
Alised Chemical and Dye Corporation.....	750.15	3,800.00	2,716.65	883.38	1,600.01	950.12
American Cyanamid and Chemical Co.....	611.69	5,000.00	2,812.47	1,645.02	4,457.49	1,154.20
Certified Products, Inc.....	252.05			7.98	7.98	244.07
Census Co. Chattanooga Medicine Co.....	179.86	3,450.00	2,856.66	343.54	1,200.20	429.68
E. I. du Pont de Nemours and Co.....	2,767.38	9,500.00	6,183.31	2,414.77	8,618.08	3,649.30
Proprietary Association.....	382.59	7,000.00	6,200.00	592.59	6,792.59	590.00
White Laboratories.....	111.60			60.00	60.00	51.60
United States Government.....						
Navy Department—N601—163.....		1,212.29	1,094.00	118.29	1,212.29	
Office of Scientific Research and Development.....						
OE-Mat—273.....	101,898.95	891,965.09	559,788.55	434,075.49	993,864.04	
OE-Mat—1356.....		16,990.76	13,765.04	3,225.72	16,990.76	
OE-Mat—464.....		1,713.18	1,000.00	713.18	1,713.18	
Public Health Service—RC—200.....		12,460.00	420.00	495.75	915.75	
Quartermaster Corps—W44 1094—675.....		15,976.15	10,274.87	5,701.28	15,976.15	11,544.25
War Department—W 49 007 M1B—169.....		23,505.83	16,337.56	7,168.27	23,505.83	
War Department—W 49 007 MD 370.....		166.66	166.66		166.66	
		290.00	290.00		290.00	
	126,750.82	1,019,735.11	640,269.89	460,329.84	1,100,599.73	45,876.20

AGENCY FUNDS				
	Balance August 31, 1945	Deposits	Withdrawals	Balance August 31, 1946 Exhibit C
American Association of University Professors.....	18.88	12.50	31.38	199.93
Engineers' Club Room Fund.....	199.93			45.00
Engineers' Library Fund.....	45.00			3,726.17
Federal Public Housing Authority—Rent, Veterans Housing:		8,379.26	4,652.89	
Gate and Key Fraternity.....	79.27		79.27	
G. W. U. Flower Fund.....	92	36.25		37.17
Homecoming Celebration.....	144.82			144.82
Omicron Delta Kappa Fraternity.....	9.17		9.17	
Order of Artus.....	81.71	42.50	124.21	
Office of Scientific Research and Development				
Pinto, West Virginia—Bus Fares.....	4,546.55	1,067.40		5,613.95
Safety Shoes.....	1,239.00	134.18		1,373.18
Phi Beta Kappa Fraternity.....	76.65	215.00	291.65	
Phi Eta Sigma Fraternity.....	19.09	80.00	99.09	
Pi Gamma Mu Fraternity.....	162.74	178.98	341.72	
Swisher History Club.....	120.75			120.75
	6,744.48	10,146.07	5,629.38	11,261.17



**CURRENT FUNDS RESTRICTED—UNEXPENDED (Continued)**  
For the Year Ended August 31, 1946

**INCOME OF ENDOWMENT AND PLANT FUNDS**

Funds	Balance August 31, 1945	Net Income for Year	DISPOSITION			Balance August 31, 1946 Exhibit C
			Current Operations	Added to Principal	Transfers	
ENDOWMENT FUNDS (Schedule 12)						
UNRESTRICTED						
Acker, . . . . .		10.56	10.56			
Alumni Endowment. . . . .		20.45	20.45			
Campaign, 1923-24. . . . .		6,569.90	5,569.90			1,000.00
Corcoran. . . . .		7,746.12	7,746.12			
Haggett. . . . .		35.18	35.18			
King, W. B. . . . .		676.04	676.04			
Reichelderfer. . . . .		382.72	382.72			
Sanders Endowment. . . . .		91.16	91.16			
Subscription Gifts, 1845-51. . . . .		440.67	440.67			
Sym. . . . .		52.77	52.77			
Trustees. . . . .		53.62	53.62			
Withers. . . . .		946.09	946.09			
			16,025.28			
SCHEDULE 1.						
RESTRICTED						
Fellowship. . . . .						
Sanders Fellowship. . . . .	4,000.39	6,987.64	6,724.00			4,264.03
Professorship. . . . .						
Alumni Professorship. . . . .		29.18	29.18			
Cornell. . . . .	191.01	17.59				
Congressional. . . . .		5,583.70	5,583.70			208.60
Depew. . . . .		5,846.62	5,846.62			
Elton. . . . .		510.43	510.43			
Fry Funds. . . . .		8,737.70		8,737.70		
Yulee. . . . .		175.91				
State Government. . . . .	2,955.89					3,131.80
Scottish Rite. . . . .		34,913.92	34,913.92			
Medical. . . . .		100.16		100.16		
Borden. . . . .		39.76				39.76
Gollins. . . . .	4,960.60	1,157.61				5,312.42
Cooper. . . . .		1,157.61				
Lewis. . . . .		1,157.61				

School of Medicine Endowment  
 Pharmacy  
 Gibbs

SCHEDULE I.

Hospital  
 Chapman  
 General Hospital  
 Howard  
 Kupper  
 National Park Seminary  
 Reinhardt  
 Tree  
 Women's Board (Income transferred to the Women's Board  
 of The George Washington University Hospital)  
 Woodbury.

SCHEDULE I.

Non Educational  
 Prize

Burns  
 Coates  
 Crossant  
 Cutler  
 Davis Prize  
 Evans  
 Fitch  
 Gaddard  
 Hubbard  
 Latner  
 Oudenaux  
 Rupples  
 Staughton Elton  
 Sterrett  
 Swisher  
 Walsh  
 Weddell

46 98	35 18
70 79	105 54
40 91	35 18
65 47	35 18
167 83	24 63
29 38	42 22
293 62	35 18
246 71	194 17
135 33	40 00
27 05	35 18
213 62	28 15
40 47	175 91
70 47	17 59
80 29	10 55
140 95	35 18
205 82	35 18
467 20	175 91

PRIZES AWARDED.

35 90

35 18

55,690 40	351 82
43 13	43 13
42 22	42 22
87 96	87 96
22 16	22 16
35 90	35 90
17 59	17 59
17 59	17 59
351 82	351 82
35 18	35 18
351 82	351 82
934 29	934 29

82 16  
 86 33  
 46 09  
 68 65  
 192 48  
 41 40  
 288 80  
 335 88  
 130 51  
 328 70  
 309 53  
 58 06  
 98 06  
 75 84  
 176 13  
 241 00  
 493 11

# **CURRENT FUNDS RESTRICTED—UNEXPENDED (Continued)** For the Year Ended August 31, 1946

## **INCOME OF ENDOWMENT AND PLANT FUNDS (Continued)**

Funds	Balance August 31, 1945	Net Income for Year	DISPOSITION			Balance August 31, 1946, Exhibit C
			Current Operations	Added to Principal	Transfers	
<b>ENDOWMENT FUNDS (Continued)</b>						
<b>RESTRICTED (Continued)</b>						
Non Educational (Continued)						
Scholarship						
Andrews .....	469.25	144.74	166.66			447.33
Bartsch .....		380.56				380.56
Carr .....	4,802.89	1,749.67	360.00			6,132.56
Carter, H. H. ....	704.74	175.91				880.65
Carter, M. M. ....	140.95	55.18				176.13
Columbian Women Funds						
Brown .....	38.58	42.22	38.58			42.22
Chamberlin .....	73.95	87.52	73.95			80.92
College Women's .....	16.07	17.59	16.07			17.59
Founders of Columbian Women .....	160.72	175.91	160.72			175.91
Herron .....	160.72	175.91	160.72			175.91
Knapp .....	160.72	175.91	160.72			175.91
Wilson .....	34.81	35.18	34.81			35.18
Davis Scholarship .....	86.13	35.18	30.00			91.31
Farnham .....	110.95	35.18	30.00			116.13
Harvey .....	346.84	130.91	186.67			291.08
Kendall .....	827.63	209.67	136.00			201.30
King, Isabella Osborn .....	29,597.80	1,388.19				31,385.99
Morchum .....	211.44	52.77				264.21
Pearson .....	60.77	59.91				120.68
Powell .....	2,374.95	1,759.10				4,134.05
Shepard .....		85.14				85.14
Spencer .....	758.49	174.00	240.00			672.49
Stone .....	231.29	174.00	60.00			263.65
Swisher .....	1,057.69	264.90				1,322.59
Walter .....	352.38	87.96				440.34
Woodhull .....	150.00	68.72				218.72
	80.78	21.11	20.00			211.69
<b>Scholarships awarded—Included in "Student Fees" Schedule "D"</b>						1,574.94



	309 26	175 91			485 17
Library					35 51
Howard					352 26
Meyer	55 31	35 18			
Swisher Alcoe Book	281 90	70 36			
Miscellaneous					
D. C.—D. A. R. Fund (see Schedule 11)		175 91		175 91	
Ellison	32 15	35 18		67 33	
Graduate	2,994 78	415 15			3,409 93
Endowment Net Income		93,006 64			
<b>PLANT FUNDS (Schedule 13)</b>					
<b>PLANT ADDITIONS</b>					
Class of 1929 Women's Unit No. 3		7 67		7 67	
Field House		82		82	
General Building		6 44		6 44	
George Washington Memorial		200 00		200 00	
Hospital Equipment (General)		323 03		323 03	
Law School Expansion		33 33		33 33	
Ohio Section of the G. W. Memorial Association		29 90		29 90	
Piano (income used for athletics)		3,295 98		3,295 98	
School of Medicine Building		73 57		73 57	
Schwab		54 70		54 70	
Student Union Furnishings		33 87		33 87	
Women's Activities Building		39 35		39 35	
<b>Schedule 1</b>		3,295 98			
	60,856 74	97,105 30		9,919 68	69,544 83

**CHANGES IN PRINCIPAL OF LOAN FUNDS**  
For the Year Ended August 31, 1946

FUNDS	Balance August 31, 1945	Increases				Decrease	Balance August 31, 1946
		Income of D.C.—D.A.R. Endowment Fund	Gifts	Interest on Loans	Transferred from Schedule 10	Refunded to U. S. Government	
D. C.—D. A. R. Loan Fund.....	2,109.66	175.91		9.00			2,294.57
George Washington Law Association Loan Fund	668.00		100.00				768.00
Home Economics Loan Fund.....	188.00		56.35				244.35
Kellogg Medical School Loan Fund.....	15,085.11			190.41			15,275.52
Kellogg Medical Technology Loan Fund.....	2,000.00						2,000.00
Maripian Loan Fund.....					250.00		250.00
Student Loan Fund.....	8,049.21			11.03			8,060.24
Sutherland Medical School Loan Fund.....	1,175.00						1,175.00
War Loan Fund.....	14,342.15					553.38	13,788.77
TOTALS—EXHIBIT D	43,617.13	175.91	156.35	210.44	250.00	553.38	43,856.45

ENDOWMENT FUNDS	Balance August 31, 1945	INCREASE			DECREASES	Balance August 31, 1946
		Gifts	Investment Income	Other		
UNRESTRICTED						
Acker	300.00					300.00
Alumni Endowment	581.20					581.20
Campaign, 1923-24	186,749.38					186,749.38
Corcoran	220,155.76	10.00				220,155.76
Haggett	1,000.00					1,000.00
King, W. B.	19,215.50					19,215.50
Reichelderfer		15,000.00				15,000.00
Sanders		2,110.00				2,110.00
Subscription Gifts, 1845-51	12,525.56					12,525.56
Syms	1,500.00					1,500.00
Trustees	1,524.06					1,524.06
Withers	26,891.46					26,891.46
RESTRICTED						
FELLOWSHIP						
Sanders	207,778.44			5,009.87A		212,788.31
PROFESSORSHIP						
Alumni	829.49					829.49
Carroll	500.00					500.00
Congressional	158,709.04					158,709.04
Depew	164,740.36					164,740.36
Eliot	14,508.19					14,508.19
Fry (University controlled)			8,737.70			8,737.70
Fry (Other Trustee controlled)		95,830.36		2,575.26A		98,405.62
Yulee	5,000.00					5,000.00
SCHOOL						
Government	1,000,000.00					1,000,000.00
Southsh Rite						
Medical						
Boaden	2,846.95		100.16			2,947.11
Colina		2,482.00				2,482.00
Cooper	10,000.00					10,000.00
Gardner	4,486.55					4,486.55
Lewis	32,298.60					32,298.60
School of Medicine Fund	5,768.00	860.00				6,628.00
Sharpe	7,940.01				294.52A	8,234.53
Pharmacy						
Gibbs	10,000.00					10,000.00
LIBRARY						
Howard	5,000.00					5,000.00
Meyer	1,000.00					1,000.00
Swisher	2,000.00					2,000.00



# CHANGES IN PRINCIPAL OF ENDOWMENT FUNDS (Continued)

For the Year Ended August 31, 1946

ENDOWMENT FUNDS	Balance August 31, 1945	INCREASES			DECREASES	Balance August 31, 1946
		Gifts	Investment Income	Other		
<b>RESTRICTED (Continued)</b>						
Hospital						
Chapman.....	1,225.90					1,225.90
General.....	1,200.00					1,200.00
Houser.....	2,500.00					2,500.00
Kimmel.....				3,071.70C		3,071.70
Kuhlbank.....	1,020.34		35.90			1,056.24
National Park Seminary.....	500.00					500.00
Reinhardt.....	500.00					500.00
Tres.....	10,000.00					10,000.00
Women's Board.....	1,000.00					1,000.00
Woodbury.....	10,000.00					10,000.00
<b>Pharm</b>						
Burns.....	1,000.00					1,000.00
Coville.....	3,000.00					3,000.00
Crosant.....	1,000.00					1,000.00
Cutter.....	1,000.00					1,000.00
Davis.....	700.00					700.00
Evans.....	1,200.00					1,200.00
Fitch.....	1,000.00					1,000.00
Goddard.....	3,519.00					3,519.00
Hubbard.....	1,000.00					1,000.00
Larner.....	800.00					800.00
Ordronaux.....	5,000.00					5,000.00
Staggles.....	500.00					500.00
Staughton—Elton.....	500.00					500.00
Sturtevant.....	300.00					300.00
Walsh.....	1,000.00					1,000.00
Widdell.....	5,000.00					5,000.00
<b>Senolansip</b>						
Andrews.....	5,000.00					5,000.00
Bartach.....		10,350.00				10,350.00
Carr.....	50,294.91				1,686.00B	48,608.91
Carter, M. M.....	5,000.00					5,000.00
	1,686.00					1,686.00

Columbian Women Funds	1,200.00					1,200.00
Chapman	2,500.00					2,500.00
College Women's	5,000.00					5,000.00
Founders of Columbian Women	5,000.00					5,000.00
Herron	5,000.00					5,000.00
Knapp	1,000.00					1,000.00
Wilson	1,000.00					1,000.00
Davis	4,960.25					4,960.25
Farnham	5,959.61					5,959.61
Harvey	39,457.56					39,457.56
Kendall	1,500.00					1,500.00
King, Isabella Osborn	2,839.80					2,839.80
Morhouse	50,000.00					50,000.00
Pearson	7,434.20					7,434.20
Shepard	2,000.00					2,000.00
Stone	7,529.55					7,529.55
Swisher	2,560.00					2,560.00
Walker	1,953.13					1,953.13
Withington	600.00					600.00
Woodhall	5,000.00					5,000.00
Miscellaneous	1,000.00					1,000.00
D.C.-D.A.R.	11,656.57					11,656.57
Ellison		389.00				389.00
Graduate			67.33			67.33
	2,388,989.37	137,031.36	8,941.09	13,186.07	1,067.33D	2,545,394.56
RESERVE FOR PROTECTION OF INVESTMENTS						
Consolidated Endowment Funds	33,565.54		4,627.60	1,686.00B		39,191.99
Scottish Rite Fund	51,619.28			1,675.85A	2,163.00B	57,515.00
				5,895.72A		
TOTALS-EXHIBIT E	2,474,174.19	137,031.36	13,568.69	22,443.64	4,916.33	2,642,301.55

A-Coin on sale of investments	15,522.94
B-Adjustment upon merger with Consolidated Endowment Funds	3,849.00
C-Transferred from Schedule 10	3,071.70
D-Transferred to Schedule 13	1,067.33
	<u>22,443.64</u>
	<u>4,916.33</u>

# CHANGES IN PRINCIPAL OF PLANT FUNDS—UNEXPENDED For the Year Ended August 31, 1946

PLANT FUNDS	Balance August 31, 1945	INCREASES			DECREASES	Balance August 31, 1946
		Gifts	Investment Income	Other		
PLANT ADDITIONS						
Class of 1929 Women's Unit No. 3	373.78		7.67			381.45
Field House		165.00	.82			165.82
General Building	290.48	35.00	6.44			331.92
George Washington Memorial Fund	11,051.56		200.00		1,573.00A	9,678.56
Hospital Equipment (Washington Circle)						
Cardiac Center		5,000.00				5,000.00
Dermatology		(400.00)		600.00B		1,200.00
General		26,862.50		20.00B	12,056.84C	14,825.66
Gynecology		94,621.92				94,621.92
Obstetrics		50.00				50.00
Ophthalmology				105.00B		105.00
Physical Therapy		3,018.74		26,981.26B		30,000.00
Staff Conference Room		10,000.00				10,000.00
Law School Expansion Fund		3,700.00	33.33	1,067.33D		4,800.66
Library Books						
Butler, Henry F.				50.00B		50.00
Class of 1945				58.75B		58.75
Council of Religious Organizations				503.21B		503.21
Davis, Harry C.				25.00B		25.00
Hellenic Society				205.00B		205.00
Lincoln Arc Welding Foundation				100.00B	90.23C	9.77
Mortar Board		30.00				30.00
Society of Sigma Xi		10.00		3.19B	13.19C	



Ohio Section of G. W. Memorial Association	1,457.80	28,756.95	29.90		1,487.70
Palto	126,951.71	5,450.00	73.57		152,408.59
School of Medicine Buildings	2,667.04		54.70		2,721.74
Schwab	1,651.32		33.87		1,685.19
Student Union Furnishings	3,877.84	292.55	39.35		4,209.74
Women's Activities Building					
	148,321.53	178,592.66	479.65	29,718.74	343,379.32
RESERVE FOR PROTECTION OF INVESTMENTS	3,967.43				3,967.43
TOTALS—EXHIBIT F	152,288.96	178,592.66	479.65	29,718.74	347,346.75

A—Land and Buildings—Invested in Plant (Auditorium Construction)					
B—Transferred from Schedule 10	28,651.41			1,573.00	
C—Equipment—Invested in Plant	1,067.33			12,160.26	
D—Transferred from Schedule 12	29,718.74			13,733.26	

# GIFTS AND GRANTS—PURPOSE AND DONOR For the Year Ended August 31, 1946

## CURRENT FUNDS

EDUCATIONAL AND GENERAL		
UNRESTRICTED—SCHEDULE 1		
Estate of Susan Whitney Dimock.....	26.54	585.03
Estate of Wilmer Worth.....	558.49	
RESTRICTED—SCHEDULE 1		
Alumni Office Expenses—General Alumni Office.....	100.00	
Salaries, Botany—National Research Council.....	3,100.00	
RESTRICTED—SCHEDULE 10		
Fellowships—Drs. Freeman and Watts.....	300.00	
Scholarships—American Foundation, Pharmaceutical Educ. Schol. Fund.....	400.00	
" " Mrs. Edwin T. Bosdon.....	250.00	
" " Harryman Dorsey.....	224.00	
" " Roy T. Pitts Foundation.....	1,600.00	
Lectures—Frank Howard.....	5,546.25	
Organized Research—Various Donors.....	1,019,725.11	
ACTIVITIES RELATING TO INSTRUCTIONAL DEPARTMENTS—SCHEDULE 1		
Hospital—Estate of Mary C. Foster.....	768.75	
Post Graduate Medical Education—W. K. Kellogg Foundation.....	10,000.00	
Henrietta Stroble.....	10.00	
	1,028,045.36	1,031,145.36

NEW EDUCATIONAL		
PRIZES—SCHEDULES 1 AND 2		
Alpha Delta Pi Sorority.....	10.00	
Chi Omega Sorority.....	25.00	
Delta Zeta Sorority.....	10.00	
Kappa Kappa Gamma Sorority.....	10.00	
Phi Sigma Sorority.....	10.00	
Pi Beta Phi Sorority.....	20.00	
Pi Lambda Theta Sorority.....	25.00	
Sigma Kappa Sorority.....	10.00	
von Briesen, Mrs. Fritz.....	25.00	
PRIZE—SCHEDULE 3		
United Daughters of the Confederacy.....	25.00	
	170.00	1,042,679.14

LOAN FUNDS (Schedule 11)		
George Washington Law Association Loan Fund—Thomas A. Larremore.....	100.00	156.35
Home Economics Loan Fund—D. C. Home Economics Association.....	56.35	

# ENDOWMENT FUNDS (Schedule 12)

UNRESTRICTED		
Campaign, 1921-24, Fund—Lynda M. Carver.....	10.00	
Reichelderfer Fund—Mary M. Reichelderfer.....	15,000.00	
Sanders Fund—J. Sanders.....	2,110.00	17,120.00

RESTRICTED		
PROFESSORSHIP		
Fry Fund—Annabel Lee Fry.....	95,830.36	

SCHOOL OF MEDICINE		
Collins Fund—Dr. Charles S. White.....	500.00	
" " Mortimer J. Fox.....	250.00	
" " John Alfred Cook.....	200.00	
" " Dr. Shirley Leva.....	100.00	
" " Dr. Thomas Canas.....	100.00	
" " Dr. Herbert Abramson.....	50.00	
" " Dr. William Earl Clark.....	50.00	
" " Dr. Maurice Protas.....	50.00	
" " Dr. Russell J. Fields.....	50.00	
" " Dr. W. J. B. Orr.....	50.00	
" " Dr. J. Katz.....	50.00	
" " Dr. W. R. Manning.....	50.00	
" " Dr. J. Gordon Bell.....	50.00	
" " various donors.....	882.00	

2,482.00

SCHOOL OF MEDICINE Fund—		
Dr. Walter A. Bloedorn.....	100.00	
Dr. Elizabeth Kahler.....	200.00	
Dr. Ervin Chapman.....	200.00	
Dr. Hugh B. Munson.....	200.00	
Dr. Lester Lando.....	100.00	
Dr. Henry Wagner.....	50.00	
Dr. Bernard Kaufman.....	10.00	

3,342.00

SCHOLARSHIP		
Bartsch Fund—Dr. Anna Bartsch-Dunne.....	10,350.00	
Shepard Fund—Lula M. Shepard.....	10,000.00	

20,350.00

MISCELLANEOUS		
Graduate Fund—		
Dr. Henry B. Woo.....	100.00	
Parthia M. Rea.....	100.00	
Emma Barbara Bauer.....	30.00	
Mary Louise Omwake.....	30.00	
Homier F. Kirby.....	25.00	
various donors.....	104.00	

389.00

119,911.36

137,031.36



GIFTS AND GRANTS—PURPOSE AND DONOR (Continued)

For the Year Ended August 31, 1946

PLANT FUNDS UNEXPENDED (Schedule 13)

PLANT ADDITIONS		
Field House Fund—Senior Class of 1946.....		165.00
General Building Fund—various donors.....		35.00
Hospital Equipment		
Cardiac Center—Homer S. Cummings.....	5,000.00	
Dermatology—Dr. Harry F. Anderson.....	600.00	
General—20th Century Fox Film Corporation.....		
Charles H. Tompkins.....	10,000.00	
Safeway Stores.....	5,139.47	
Mr. and Mrs. M. Rumshin.....	3,500.00	
Phi Delta Sorority.....	2,000.00	
Dr. and Mrs. Maurice Protas.....	2,000.00	
Estate of Edward Droop.....	1,000.00	
Mrs. Barbara Nimmon.....	1,000.00	
Irving A. Tennyson.....	400.00	
Dr. Paula R. Kistner.....	300.00	
Dr. Spingman Klier.....	150.00	
Dr. Fred A. J. Cener.....	100.00	
Dr. William M. Sweet.....	100.00	
Wm. F. Hall.....	100.00	
Dr. Ricardo Fernandez.....	100.00	
Benjamin Martin.....	100.00	
Charles C. Stott.....	100.00	
George E. Fleming.....	100.00	
A. Eldridge Smith.....	100.00	
C. A. Aspinwall.....	50.00	
Ralph W. Lee, Jr.....	50.00	
various donors.....	26,539.47	
Maternity—L. Corrin Strong.....	94,421.92	
Dr. Ethel C. Dunham.....	200.00	
Obstetrics—La. Col. and Mrs. Jack Reith.....	50.00	
Physical Therapy—anonymous.....	3,018.74	
Staff Conference Room—Frances Nash Watson.....	10,000.00	
		139,830.13

Law School Expansion Fund—Newell W. Ellison.....	2,500.00	
Fortunato Porotto.....	50.00	
Charles C. Glover.....	100.00	
George A. Trout.....	100.00	
Harry Friedman.....	100.00	
Charles E. Vignea.....	100.00	
Grville R. Allen.....	100.00	
Charles R. Allen.....	50.00	
Robert D. Armstrong.....	50.00	
Maurice Phillips.....	25.00	
Leshie B. Young.....	25.00	
various donors.....	50.00	3,700.00
Library Books—Mortar Board.....	30.00	
Society of Sigma Xi.....	10.00	40.00
Pairo Fund—Estate of Richard E. Pairo.....		28,756.95
School of Medicine Building Fund—Dr. Charles S. White.....	5,000.00	
Dr. George W. Hoover.....	250.00	
Dr. Benjamin Richman.....	200.00	
Women's Activities Building Fund—various donors.....		5,450.00
		292.55
		<u>178,269.63</u>

TOTAL GIFTS AND GRANTS

1,358,136.48

# DESCRIPTION OF LOAN FUNDS

August 31, 1946

DISTRICT OF COLUMBIA D. A. R. LOAN FUND Created in 1938 from income of the D. C.—D. A. R. Endowment Fund. To be loaned to descendants of patriots of the American Revolution.....	2,294.57
GEORGE WASHINGTON LAW ASSOCIATION LOAN FUND Created in 1941 by the George Washington Law Association to be loaned to students of the Law School.....	768.00
HOME ECONOMICS LOAN FUND Created in 1940 by the D. C. Home Economics Association to be loaned to senior girls majoring in Home Economics.....	244.35
KELLOGG LOAN FUND Gift of the W. K. Kellogg Foundation in 1942, to be loaned to students of the School of Medicine.....	15,275.52
KELLOGG MEDICAL TECHNOLOGY LOAN FUND Gift of W. K. Kellogg Foundation in 1943, to be loaned to Medical Technologists in Training at the School of Medicine.....	2,000.00
MARIAN LOAN FUND Gift of veterans of Saipan in 1945, to be loaned to veterans.....	250.00
STUDENT LOAN FUND Created by the University to make short time loans for educational purposes.....	8,060.24
SUTHERLAND LOAN FUND Created in 1941 by gifts of various donors, to be loaned to students of the School of Medicine.....	1,175.00
WAR LOAN FUND Created in 1942 by the United States Government to be loaned to students in technical and professional fields of National Defense.....	13,788.77



DESCRIPTION OF ENDOWMENT FUNDS

August 31, 1946

UNRESTRICTED FUNDS

ACKER FUND	
Bequest of George N. Acker, M. D., received in 1924, the income only to be used.	300.00
ALUMNI ENDOWMENT FUND	
Established by the Class of 1920, to be added to by succeeding graduating classes, the income only to be used.	581.20
CAMPAIGN FUND 1923-24	
Receipts from various donors, the income only to be used.	186,749.38
CORCORAN FUND	
Raised by authority of the Trustees of Columbian College and Columbian University between the years 1871-86, William W. Corcoran giving \$112,000 and the balance being obtained by general subscription, the income only to be used.	220,155.76
HAGGETT FUND	
Gift of Isabelle Barnes Haggett in 1941, the income only to be used.	1,000.00
KING, W. B. FUND	
Gift of William B. King, received in 1941 and 1942, the income only to be used.	19,215.50
REICHELDERFER FUND	
Gift of Mary M. Reichelderfer in 1945, in memory of her husband, Luther H. Reichelderfer, the income only to be used.	15,000.00
SANDERS ENDOWMENT FUND	
Gift of J. Sanders in 1945, the income only to be used.	2,110.00
SUBSCRIPTION GIFTS FUND 1845-51	
Raised by authority of the Trustees of Columbian College by general subscription between the years 1845-51, the income only to be used. (Formerly called the Peindexter Endowment Fund.)	12,525.56
SYMS FUND	
Bequest of Samuel Syms of West Hoboken, New Jersey, in 1891, the income only to be used.	1,500.00
TRUSTEES FUND	
Established by the Board of Trustees of the University in 1933, the income only to be used.	1,524.06
WITHERS FUND	
Raised by authority of the Trustees of Columbian College between the years 1851-70. John Withers of Alexandria, Virginia, giving \$16,000, the balance being obtained by general subscription, the income only to be used. (Formerly called the Forty Thousand Dollar Endowment Fund)	26,891.46

# DESCRIPTION OF ENDOWMENT FUNDS (Continued)

August 31, 1946

## FELLOWSHIP FUND

**SANDERS FELLOWSHIP FUND**  
Bequest of Addie Sanders in 1928 in memory of her brother, Thomas Bradford Sanders, the income to be used for annual fellowships in various academic fields of study..... 212,788.31

## PROFESSORSHIP FUNDS

**ALUMNI PROFESSORSHIP FUND**  
Gifts of various alumni since 1911, the income to be used for the endowment of an alumni professorship in mathematics..... 829.49

**CARROLL PROFESSORSHIP FUND**  
Established by Mary A. Sharpe in 1928, in memory of Mitchell Carroll, the income to be used to provide revenue for a chair in Archeology..... 500.00

**CONGRESSIONAL PROFESSORSHIP FUND**  
Gift of the United States in 1832, by Act of Congress, of \$25,000 in city lots in Washington, D. C., to be sold, the proceeds invested, and the income to be used for professorships..... 158,709.04

**DEPEW COURSE IN PUBLIC SPEAKING FUND**  
Created by May Depew in 1936, the income to be used for the maintenance of a course to be known as the "Chauncey M. Depew Course in Public Speaking"..... 166,903.36

**ELTON PROFESSORSHIP FUND**  
Bequest of Ronco Elton of Exeter, England, in 1872, the income to be used for a professorship of mental and moral philosophy, to be called the "Elton Professorship of Mental and Moral Philosophy"..... 14,508.19

**FRY PROFESSORSHIP FUNDS**  
Bequest of Annabel Lee Fry, received in 1945, in memory of her husband, Dr. Henry D. Fry, the income to be used for a professorship in physiology..... 98,405.62  
Created in 1945 from income of the fund, the income of the two funds to be used jointly for a professorship in physiology..... 8,737.70

**YULEE ENDOWMENT FUND**  
Bequest of Nannie Yulee Noble to memory of her mother, Nancy Yulee, in 1929, the income to be used for lectures in home economics..... 5,000.00

# SCHOOL FUNDS

## GOVERNMENT

### SCOTTISH RITE ENDOWMENT FUND

Created by indenture December 27, 1928, by the Supreme Council of the Ancient and Accepted Scottish Rite of Freemasonry of the Southern Jurisdiction of the United States of America, as a permanent memorial to George Washington, The Mason. To be invested and the income used to establish and maintain a School or Department of Government. . . . .

1,000,000.00

## MEDICAL

### BORDEN MEDICAL FUND

Created in 1932, by William Cline Borden, M. D., and Jennie Ella Borden, and since added to by Daniel LeRay Borden, the income to be applied to lectureships in medical science to be known as the "William Cline Borden Lectures on Surgery or Medical Science"

### COLLINS MEDICAL RESEARCH FUND

Created in 1946, by gifts of various donors, in memory of Dr. James Lloyd Collins, the income to be used for special research in surgery. . . . .

2,947.11

### COOPER MEDICAL RESEARCH FUND

Bequest of Eleanor J. Cooper in 1905, on certain terms since modified by the Supreme Court of D. C. as follows: the income to be used toward the establishment and maintenance, in connection with the Medical Department of the University, of a Research Laboratory, the work of this laboratory to be devoted to the investigation of the nature, causation, prevention, and cure of malaria and other infectious and contagious diseases. . . . .

2,482.00

### GARDNER MEDICAL SCHOOL FUND

Bequest of William D. Gardner, received in 1928, the income to be used toward the support of the School of Medicine. . . . .

10,000.00

### LEWIS MEDICAL SCHOOL FUND

Bequest of Samuel E. Lewis, received in 1925, the income to be used toward the support of the School of Medicine. . . . .

4,486.55

### SCHOOL OF MEDICINE ENDOWMENT FUND

Created in 1940 by the gifts of various donors, the income to be used for the development of the program of the School of Medicine. . . . .

32,298.60

### SHARPE MEDICAL SCHOOL FUND

Gift of Mary A., Elizabeth M., and Sallie Sharpe in 1924, the income to be used for the School of Medicine. . . . .

6,628.00

## PHARMACY

### GIBBS PHARMACY FUND

Gift of M. G. Gibbs in 1927, the income to be used to aid in establishing and maintaining a commercial pharmacy course in connection with the School of Pharmacy. . . . .

10,000.00



# DESCRIPTION OF ENDOWMENT FUNDS (Continued)

August 31, 1946

## HOSPITAL FUNDS

CHAPMAN HOSPITAL FUND Bequest of Mrs. Susanna A. Chapman in 1911, the income to be used for the purposes of the free wards of the University Hospital	1,225.90
GENERAL HOSPITAL ENDOWMENT FUND Created in 1929 by gifts of various donors, the income to be used for the benefit of the University Hospital	1,200.00
Houser Hospital Fund Bequest of E. Keller Houser, received in 1944, the income to be used to endow a room in memory of his daughter, Anna Victoria Houser	2,500.00
KIMMEL HOSPITAL FUND Bequest of Annie Kimmel, received in 1932, the income to be used for the benefit of the University Hospital	3,071.70
KUHLBANK HOSPITAL FUND Bequest of Freda Kuhlbank, received in 1930, the income to be added to the principal until the principal shall be large enough to maintain a bed in the White Ward of the Hospital to be known as the "Freda Kuhlbank Bed"	1,056.24
NATIONAL PARK SEMINARY HOSPITAL FUND Gift of students of National Park Seminary of Forest Glen, Maryland, in 1906, the income to be used toward the maintenance of a bed in the University Hospital	500.00
REINHARDT HOSPITAL FUND Bequest of Luisa Wynne Reinhardt in 1922, the income to be used for the benefit of the University Hospital	500.00
TREE HOSPITAL FUND Bequest of Lambert M. Tree of Chicago, in 1911, in memory of his mother, Mrs. Laura M. Tree, the income to be used to support and maintain one or more beds in the University Hospital, to be known as the "Laura M. Tree Bed or Beds"	10,000.00
WOMEN'S BOARD HOSPITAL FUND Gift of the Women's Board of The George Washington University Hospital in 1925, the income to be used by the Women's Board for the benefit of the University Hospital	1,000.00
WOODBURY HOSPITAL FUND Bequest of Mrs. Mary Woodbury in 1909, the income to be used for the reception and treatment of female patients in the University Hospital	10,000.00

PRIZE FUNDS

BURNS MEMORIAL AWARD FUND

Gift of Persia Burns in 1937 in memory of her son, *Byrne Thurtell Burns*, the income to be used for an annual award in chemistry. . . . .

1,000.00

COWLES PRIZE FUND

Created in 1943 by John Henry Cowles, the income to be used for annual awards in the School of Government. . . . .

3,000.00

CRUICKSHANK PRIZE FUND

Bequest of DeWitt Clinton Cruickshank, received in 1941, the income to be used to award an annual prize for excellence in dramatics or dramatic studies. . . . .

1,000.00

CUTTER PRIZE FUND

Gift of Marion Kendall Cutter in 1902, in memory of E. K. Cutter, the income to be used for an annual award for excellence in the study of English. . . . .

1,000.00

DAVIS PRIZE FUND

Gift of Isaac Davis of Worcester, Massachusetts, in 1847, the income to be used for annual awards to members of the senior class who have made the greatest progress in elocution since their connection with the College. . . . .

700.00

EVANS MEMORIAL AWARD FUND

Created in 1937 by gift of friends of Joshua Evans III, the income to be used to establish a prize, as a memorial to an "outstanding life," to be awarded annually "to that man in the graduating class of The George Washington University who has demonstrated his signal ability in the social and political sciences and who has given promise of the interpretation of that ability in good citizenship among his fellows". . . . .

1,200.00

FITCH PRIZE AWARD

Gift of James E. Fitch in 1883 in memory of Willie E. Fitch, the income to be used for an annual award to a senior student for the best general examination in chemistry. . . . .

1,000.00

GODDARD PRIZE FUND

Gifts of Mary W. Goddard, Alice Douglas Goddard and Frederick J. Goddard of Georgetown, D. C. in 1923, in memory of Morgan Richardson Goddard, Edward Carrington Goddard and James Douglas Goddard; added to in 1941 by a gift of Frederick J. Goddard in memory of Alice Douglas Goddard. The income shall be used to award four cash prizes annually to the students making the highest averages in commerce, French language and literature, pharmacy, and American literature, respectively. . . . .

5,519.00

HUBBARD PRIZE FUND

Gift of Gertrude M. Hubbard in 1907, in memory of her husband, Gardiner G. Hubbard, the income to be used for an annual award for excellence in American history. . . . .

1,000.00

# DESCRIPTION OF ENDOWMENT FUNDS (Continued)

August 31, 1946

## PRIZE FUNDS (Continued)

LARNER PRIZE FUND Bequest of John B. Larner in 1933, the income to be used for an annual award in the Law School.....	800.00
ORDRONAUX PRIZE FUND Bequest of John Ordonaux of Glen Head, New York, in 1909, the income to be used for annual awards in the Law and Medical schools.....	5,000.00
RUGGLES PRIZE FUND Gift of William Ruggles (at one time Acting President of Columbian College) in 1859, the income to be used for an annual award for excellence in mathematics.....	500.00
STAUGHTON-ELTON PRIZE FUND Gifts of Romeo Elton of Exeter, England, in 1860 and 1865, the income to be used for annual awards for excellence in the Latin and Greek languages, one to be called the Staughton Prize in Latin, the other the Elton Prize in Greek.....	500.00
STERRETT PRIZE FUND Gift of the Reverend J. MacBride Sterrett, in 1911, in memory of his son, J. MacBride Sterrett, Jr., the income to be used for a gold medal to be awarded annually to the student obtaining the highest average in general physics.....	300.00
SWISHER PRIZE FUND Gift of Charles Clinton Swisher in 1941, the income to be applied yearly to enlarging the sum set apart for the Historical Prize established in his name by the Historical Club, December 7, 1936.....	1,000.00
WALSH PRIZE FUND Gift of Thomas F. Walsh of Washington, D. C., in 1901, the income to be used for an annual award for the best essay on some topic in Irish history.....	1,000.00
WEDDELL PRIZE FUND Gift of Virginia Chase Weddell in 1923, the income to be used to award annually the Alexander Wilbourn Weddell Prize, to the student submitting the best essay upon the general subject to the promotion of peace among the nations of the world.....	5,000.00



# SCHOLARSHIP FUNDS

## ANDREWS MEMORIAL SCHOLARSHIP FUND

Gift of Belle Fisk Andrews in 1920 in memory of her husband, Byron Andrews, the income to be used for scholarships "for ambitious and needy students of English, Latin, journalism, history, literature, or political science."

5,000.00

## BARTSCH SCHOLARSHIP FUND

Gift of Dr. Anna Bartsch-Dunne in 1946, the income to be used for a scholarship for a woman in the School of Medicine and an internship for a woman in the University Hospital.

10,350.00

## CARR SCHOLARSHIP FUND

Bequest of Emma K. Carr of Moorefield, West Virginia, in 1932, the income to be used for scholarships for young white men.

48,608.91

## CARTER, H. H., SCHOLARSHIP FUND

Gift of Maria M. Carter in 1896, in memory of her husband, Henry Harding Carter, the income to be used for scholarships in Civil Engineering.

5,000.00

## CARTER, M. M., SCHOLARSHIP FUND

Gift of Maria M. Carter in 1871, the income to be used for a scholarship for a young man.

1,000.00

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# DESCRIPTION OF ENDOWMENT FUNDS (Continued)

August 31, 1946

## SCHOLARSHIP FUNDS (Continued)

<b>COLUMBIAN WOMEN FUNDS</b>	
<b>BROWN SCHOLARSHIP FUND</b>	
Created by the College Women's Club of Washington, D. C., in 1925, in memory of Elizabeth V. Brown, the income to be used for scholarships in the School of Education	1,200.00
<b>CHAMBERLIN SCHOLARSHIP FUND</b>	
Created by the Columbian Women of The George Washington University in 1952 in memory of Grace Ross Chamberlin, the income to be used for scholarships for young women	2,300.00
<b>COLLEGE WOMEN'S SCHOLARSHIP FUND</b>	
Gift of the College Women's Club of Washington, D. C., in 1926, the income to be used for scholarships	500.00
<b>FOUNDERS OF COLUMBIAN WOMEN SCHOLARSHIP FUND</b>	
Created by the Columbian Women of The George Washington University in 1920, the income to be used for scholarships for women in Columbian College	5,000.00
<b>HERRON SCHOLARSHIP FUND</b>	
Created by the Columbian Women of The George Washington University in 1925 in memory of Lillian Young Hermon, the income to be used for scholarships for women in Columbian College. (Formerly Third Columbian Women Scholarship Fund)	5,000.00
<b>KNAPP SCHOLARSHIP FUND</b>	
Gift of the Columbian Women of the George Washington University in 1915, in memory of Nellie Maynard Knapp, the income to be used for scholarships for women	5,000.00
<b>WILSON SCHOLARSHIP FUND</b>	
Gift of Elizabeth Wilson in 1926 in memory of her parents Lewes D. and Myrtie H. Wilson, the income to be used for a scholarship in the School of Medicine	1,000.00

<b>DAVIS SCHOLARSHIP FUND</b>		
Gift of Isaac Davis of Worcester, Massachusetts, in 1869, the income to be used for a scholarship	1,000.00	
<b>FARNHAM SCHOLARSHIP FUND</b>		
Gift of Mrs. Robert Farnham in 1871, the income to be used for a scholarship in Columbian College	1,000.00	
<b>HARVEY SCHOLARSHIP FUND</b>		
Bequest of Emma Elizabeth Harvey in memory of her daughter, Elma Lewis Harvey, received in 1923, the income to be used for a scholarship in Columbian College for young women of the Protestant faith and of the Caucasian race	5,031.97	
<b>KENDALL SCHOLARSHIP FUND</b>		
Gift of Amos Kendall in 1869, the income to be used for a scholarship now designated by the Board of Trustees as one of the two High School Scholarships assigned to Central High School	5,959.61	—
<b>KING MEMORIAL SCHOLARSHIP FUND</b>		
Bequest of Isabella O. King, received in 1928, the income to be used to provide a fellowship in biology	39,457.56	83
<b>MOREHOUSE SCHOLARSHIP FUND</b>		
Gift of A. Morehouse in 1861, the income to be used for scholarships for undergraduates intending to enter the Christian ministry	1,500.00	—
<b>PEARSON SCHOLARSHIP FUND</b>		
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<b>POWELL SCHOLARSHIP FUND</b>		
Gift of Levin M. Powell in 1886, the income to be used to train young men for entrance in the United States Naval Academy or to fit them to become mates and masters in the Merchant Marine Service of the United States	50,000.00	
<b>SHEPARD SCHOLARSHIP FUND</b>		
Bequest of Lula M. Shepard, received in 1946, the income to be used for a scholarship in the School of Government	10,000.00	



# DESCRIPTION OF ENDOWMENT FUNDS (Continued)

August 31, 1946

## SCHOLARSHIP FUNDS (Continued)

SPENCER SCHOLARSHIP FUND		
Gift of Louisa J. Spencer in 1918, the income to be used for a scholarship.....	7,434.20	
STONE SCHOLARSHIP FUND		
An anonymous gift in 1893 in memory of Mary Lowell Stone, the income to be used for scholarships for women students of science in Columbian College.....	2,000.00	
SWISHER SCHOLARSHIP FUND		
Gift of Dr. Charles Clinton Swisher in 1941, the income to be used to award the Charles Clinton Swisher Scholarship in Medieval History.....	7,529.55	
WALKER SCHOLARSHIP FUND		
Gift of William Walker of Putnam County, Georgia, in 1824, the income to be used for a scholarship for an undergraduate intending to enter the Christian ministry.....	2,500.00	
WITHINGTON SCHOLARSHIP FUND		
Gift of the New York Baptist Theological Seminary, on behalf of John Withington, of New York, in 1830, the income to be used for a scholarship to be named the Withington Scholarship.....	1,953.13	
WOODHULL SCHOLARSHIP FUND		
Bequest of Ellen M. E. Woodhull, received in 1921, the income to be used for scholarships in Columbian College....	600.00	

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August 31, 1946

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SUMMARIES OF  
DOCTORAL DISSERTATIONS

1944-46





THE  
GEORGE  
WASHINGTON  
UNIVERSITY  
BULLETIN

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SUMMARIES OF  
DOCTORAL DISSERTATIONS

1944-46

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WASHINGTON, D. C.

PUBLISHED IN MCMXLVII

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### PREFATORY NOTE

This number of the **University BULLETIN** contains summaries of the dissertations which have been accepted during 1944-46, inclusive, in partial satisfaction of the requirements for the degrees of Doctor of Philosophy and Doctor of Education at The George Washington University. The original dissertations are filed in the University Library, where they may be consulted by students interested in examining the complete texts.

### AVAILABILITY OF DISSERTATIONS

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SUMMARIES OF DISSERTATIONS  
SUBMITTED FOR  
THE DEGREE OF DOCTOR OF PHILOSOPHY

1944-46





## COMPARATIVE INTERNAL ANATOMY OF SEEDS\*

by ALEXANDER CAMPBELL MARTIN†

### PERSPECTIVE

This report presents new morphological and systematic information derived from an extensive study on the gross internal anatomy of seeds. It includes a system of seed classification, an outline of seed phylogeny, and more than 900 diagrams accompanied by an annotated and classified roster. The investigation was based on seeds of 1274 genera of plants mainly from North America but with a considerable representation from other continents. A majority of the plant families of the world are included in the study and consequently it is assumed that the system of seed classification may be applicable not only to the United States flora but also, in large measure, to most of the plants of the world.

The objects of the study are twofold: (1) to provide new morphological information some of which may be useful in plant classification and (2) to furnish a helpful reference for specialists in seed identification. In addition to the author's need for such a reference in his regular work other special inducements to make the investigation were as follows:

a) The relatively virgin fertility of this important field. Seeds are recognized as fundamentally significant indicators of plant relationship and, anomalously, comprehensive studies on seed structure and classification have been neglected for nearly one hundred and fifty years—since the time of Gaertner. There has been no prior reference work devoted to the internal morphology of seeds nor has there been any previous seed study in which classification was based, even in part, on premises of evolutionary relationship of basic seed types to each other.

b) The deficiency of reliable information on seed structure in current botanical literature also served as a stimulant for the study. Errors or other defects were noted before the systematic survey was initiated but not until recently was there realization of the extent of imperfection in this knowledge. Statements on internal anatomy of seeds as given in family descriptions in three of the country's principal floras were checked against information obtained from the present study and the accuracy of seed descriptions in the three books was found to be 0 per cent in one, 37 per cent in another, and 56 per cent in the third.

c) A third inducement, and one which relates to a probable major cause for the comparative dearth of research in seed anatomy, consisted of access to the excellent seed collection of the Fish and Wildlife

\* A report based largely on this dissertation and entitled "The Comparative Internal Morphology of Seeds" has been published in *The American Midland Naturalist*, vol. 36, no. 3, Nov. 1946, pp. 513-660.

† A.B., 1940, Oberlin College; M.S. 1924, North Carolina State College; Ph.D. conferred February 22, 1944.

Service. Extensive seed collections require many years of work and they are rare as compared to herbaria, consequently the privilege of using the Service collection was a special opportunity.

External characters of seeds are, and will continue to be, the most important means of seed identification; prospective usefulness of this manual to seed identifiers is intended only as supplemental to external features, since internal anatomy, in itself, is not an adequate basis of identification. However, knowledge of internal structure serves as an important, almost indispensable means of ascertaining the general part of the plant kingdom in which an unfamiliar seed belongs and also is a valuable adjunct in the verification of determinations founded on surface characteristics.

#### PROCEDURES

Procedures in studying the comparative anatomy of seeds involved free hand sectioning of seeds with razor blades. Vertical sections were made in a plane calculated to display the embryo shape and other parts to best advantage and additional specimens were sectioned horizontally near the middle. Drawings of both vertical and cross sections were made in selected specimens containing albumen; no drawings were made of sections lacking albumen. Seeds of various species (usually all species) in a genus were studied but generally only one or a few were drawn to represent the genus. Drawings of all seeds were made with the long axis of the same length (three centimeters in the original) in order to facilitate comparisons on a common denominator of size. Also, to make particularly clear the relationship between the embryo and albumen, black and white contrast was used in depicting these two parts.

In connection with definition of terms a new and less ambiguous system has been devised for designation of embryo size (and albumen quantity): embryos constituting less than one-fourth of the seed interior are *small* or *minute*; embryos more than one-fourth but less than half are *quarter*; embryos of half the total or more but less than three-fourths are *half*; embryos of three-fourths or more but with albumen present are *dominant*; while embryos that comprise all or virtually all of the interior are *total*.

#### CLASSIFICATION PLAN

Whereas superficial characteristics of seeds such as shape, size, color, and surface markings are myriad and often very markedly among species or genera in the same family, the significant types of internal arrangement incline to be relatively few and comparatively stable. A system of classification based on external characters would necessarily be complex and would also be extremely chaotic in its groupings of unrelated species, genera, and families. Though the use of internal char-

acters does not provide immunity from these two defects it does assure simplicity and a considerable degree of coherence of related groups. Categories of classification chosen subsequent to the survey of seeds of nearly two hundred families were purposely limited to a few seemingly basic units that might in some degree indicate natural relationships and help to reconstruct the course of seed phylogeny. Five major units, *divisions*, and thirteen secondary categories, *types*, have been adopted. Names assigned to the various divisions and types are based largely on characteristics of the embryo. The classification units, characterized and illustrated in the report are as follows:

Rudimentary: Small, Broad.

Peripheral: Capitate, Plane, Cylindric, Expanded.

Axile: Linear.

Reduced: Dwarf, Micro.

Foliate: Spatulate, Bent, Folded, Investing.

#### EVOLUTIONARY TRENDS IN SEEDS

*Embryo size.*—It is widely though not unreservedly assumed that smallness in embryos is representative of a primitive state in seeds and, conversely, that embryos which become well-developed before dormancy reflect a higher evolutionary rank. Fossil seeds from the Paleozoic era reveal no embryos whatever and there is considerable other evidence from both phylogeny and ontogeny tending to support the concept of relative antiquity of small embryos. The principle, however, is dangerously incomplete in the absence of an important qualification relating to seed size; a small embryo (in proportion to albumen) in a small or minute seed may denote just the reverse, a specialized and advanced state, as exemplified in many genera in the Reduced division. In general then it may be stated that medium-sized or large seeds with relatively small embryos are representative of primitive type. Since little is known regarding the factors in phylogeny that arrest or reverse embryo size it would be unsafe to assume that all medium-sized or large seeds classed as Rudimentary in this study are necessarily on an equivalent evolutionary level.

*Seed size.*—From the ancient starting point of theoretically primitive seeds to the modern state of flowering plants there are two distinct and strongly divergent lines of progression as regards seed development. The two trends embracing much of the plant kingdom represent contrasting principles in the economics of seed production, one stressing quantity and the other quality, one the buckshot method, the other the cannon-shell. Whereas some plants bear myriads of minute, more or less delicate seeds, others incline toward the opposite policy expending their food reserves in a relatively small number of large, well-developed seeds with advanced types of embryos. Divergent orthogenesis in these



opposite directions has produced distinct forms of seeds that are particularly conspicuous in two of the five major seed divisions; the Reduced represent quantity and the Foliate, quality. Embryos in Reduced seeds are not only compressed in size and shape but repressed in development whereas the typical "quality" type of seed has well-developed cotyledons on a large embryo. These trends are evident to some degree in other divisions besides the Reduced and Foliate and their prevalence in the plant kingdom attests to success achieved through both of the contrasting principles.

*Albumen trends.*—The Broad type and all types in the Peripheral division are unique in that ordinarily they do not occur apart from conspicuously starchy albumen. Frequently the albumen is white but whether white or glassy it gives the usual starch reaction with iodine. Conversely, conspicuously starchy storage albumen is not evident in any seed types besides those mentioned except for a few Monocots in the Linear (Axile) type (possibly these Monocots are more closely related to plants in the Peripheral group than to the Linear). Thus it appears that two major phylogenetic lines are associated with differences in albumen; the Peripheral class with conspicuously starchy albumen and lateral embryo and the central-embryoed Axile with its two branches, Foliate and Reduced, having non-starchy albumen.

Except in the Reduced division the presence and amount of albumen is generally not without some significance as an indication of stage of advancement in seeds but it seems of secondary value as compared with embryo characteristics. A majority of the seeds classed as exalbuminous in this and other studies have a thin lining of albumen, ordinarily one to three cells thick in sections. This lining frequently functions as a semi-permeable membrane.

*Cotyledon development.*—In many seeds of the Rudimentary and Reduced divisions and in some genera of other divisions the cotyledons are inconspicuous and only poorly developed. In the Foliate division, however, cotyledons are expanded and developmental trends are evident in three different phases of progressive enlargement:

1. Thin cotyledons become folded (Folded type).
2. Thin or medium cotyledons become thick, often absorbing all storage tissue and frequently growing over and encasing the stalk (Investing type).
3. The stalk generally becomes proportionately smaller, usually short and broad in vertical forms and slender in bent ones. Extensive development of the cotyledons appears to be at the expense of the stalk as is evident in a comparison of early forms of the Spatulate with the Investing or advanced Bent types.

## PHYLOGENETIC THEORIES

The thesis report includes a diagram of a phylogenetic tree for seeds and presents in considerable detail discussion of interrelationships of divisions and types. There is brief comment on certain correlations or conflicts between seed classification and plant family arrangements and in this connection acknowledgment is made that a single line of evidence, such as seeds, should not be expected to serve adequately as a substitute for correlated phylogenetic information from various botanical sources.

Briefly, the Rudimentary division, through its two types, Small and Broad, represents a comparatively primitive state from which other seed divisions and types have been derived. The derivation of other groups from the Small type is supported by considerable evidence and there is some indication that the Broad type may have arisen from the Small and may in turn be a progenitor of the Peripheral division or parts of it.

The Peripheral division, though seemingly complex and incoherent in its combination of Monocots and Dicots, may not be illogical; seeds in this group have several distinctive features in common.

The Axile division represented by the single type, Linear, is a distinct, easily recognized group but is heterogeneous in that it includes Gymnosperms, Monocots, and Dicots. With few exceptions the seeds of modern Gymnosperms are of this type; among the Monocots the Linear type seems to be the end of a blind alley; but for Dicots it is very clearly a way station or an intermediate stage between primitive and advanced seed types. The derivation of Linear Dicots from the Small type seems obvious and the origin of the Foliate and Reduced divisions from erect or nearly straight-embryoed Linear Dicots is also evident—so much so that frequently it is difficult to delimit satisfactorily the two divisional branches from the parent trunk. On the other hand the curved or coiled Linear forms do not give clear indication of ancestral relationship to other seed types.

The Reduced division is a consequence of the quantity production trend. Minute seeds occur in other divisions but ordinarily they lack characteristics of embryo, albumen, and seed coat that distinguish Dwarf and Micro seeds. The latter, Micro type, represents the extreme of diminution while the Dwarf type frequently intergrades with the Linear type so that arbitrary demarcation must be made.

The Foliate division represents the acme of embryo development in seed plants. In some instances the broad cotyledons of the embryonic plant have distinct midrib and veins and frequently the plumule with normal first leaves is visible in certain exalbuminous species. The Folded type is apparently derived from Spatulate seeds having thin though extensive cotyledons whereas typical Broad and Investing seeds seem to have developed from Spatulate forms in which the cotyledons became thickened while expanding in other dimensions.

## CLASSIFIED ROSTER

The roster consists of 67 plates of seed diagrams arranged in order of seed classification and accompanied by text in the form of annotated listings. In the presentation, Gymnosperms, Monocots, and Dicots are treated separately in order to preserve the identity of these major groups. Families also are retained intact, though their genera, in some instances, may be referable to two or more seed types. In the latter case the name of the proper type is given parenthetically in the left hand margin and the exceptional genus is also recorded in the "Appendix" for the type concerned. In the roster, families having albumen (generally illustrated) are listed in the order of their illustrations. Both families and genera without albumen are underscored and are listed alphabetically following the albuminous ones. Parenthetical figures following the generic name indicate the number of species available for study and author citations are provided for names of species used in illustrations. An alphabetical index to names of genera and families follows the roster.



SOME FACTORS INVOLVED IN THE ANTIGENIC ANALYSIS OF *LISTERELLA MONOCYTOGENES*, WITH SPECIAL REFERENCE TO THE EXPRESSION OF INDIVIDUAL COMPONENTS UNDER VARIOUS CONDITIONS

by MARY LOUISE ROBBINS •

Numerous studies have been made of the conditions under which various bacterial antigens stimulate maximum antibody response, but practically no work has been done on the effect of such conditions on the expression of individual components which make up the labile and stable antigens.

The purpose of this investigation was to ascertain optimal conditions for conducting antigenic analysis of a given bacterial species. *Listerella monocytogenes* was selected for the study, first because it has a well-developed but relatively simple antigenic structure, and second, because of its importance as the etiological agent of a fatal encephalomyelitis in man and animals and its possible involvement as the causative agent of infectious mononucleosis.

The antigenic structure of *Listerella monocytogenes* proposed by Paterson was adopted as a basis for individual factor analysis. Individual stable factors are designated by large Roman numerals; individual labile factors are represented by capital letters. Paterson described four serological types: Type 1 (*I, II, III, A, B*); Type 2 (*I, II, III, B, D*); Type 3 (*II, III, IV, A, B*); Type 4 (*III, V, A, B, C*). In the present study, antibodies specific for the individual antigenic factors are represented by the corresponding numbers and letters in lower case. Thus antibodies specific for individual labile factors are represented as *a, b, c, d*, and for the individual stable factors as *i, ii, iii, iv, v*.

Qualitative determination of antigenic structure depends upon detection in an immune serum of antibodies specific for the individual antigenic factors. Semi-quantitative relationships are indicated by the degree of response. Antibodies specific for species-specific factors *III* and *B* are detected by direct agglutination of an antigen containing only the species-specific factor in common with the immunizing antigen. Type-specific antibodies are detected by adsorbing the serum with a heterologous strain and testing the resulting supernatant fluid with the immunizing antigen.

Antigenic analyses were conducted under conditions designed to detect (1) changes in relative concentrations of individual factor-specific antibodies during immunization and (2) the effect of various treatments on the individual antigenic components.

• A.B. 1934, American University; A.M. 1940, The George Washington University; Ph.D. conferred February 23, 1944.

To detect changes in relative concentrations of individual factor-specific antibodies during immunization, rabbits were immunized with killed organisms of selected strains representing the four serological types of *Listerella monocytogenes*. Labile antigens were preserved by addition of formalin to tryptose-phosphate broth cultures grown at room temperature. In preparing stable antigens, tryptose-phosphate agar cultures grown at 37° C. were heated for two hours at 100° C., to inactivate the labile antigens. The rabbits were bled at intervals of from two to five days throughout the immunization period. Each serum sample was tested by agglutination, and after sufficiently high antibody response was obtained each sample was tested by adsorption as well as agglutination.

Analysis of labile antigens was carried out with representative strains of Type 1 (*A, B*), Type 2 (*B, D*), and Type 3 (*A, B, C*). With the exception of Antibody *c*, the factor-specific antibodies appeared at essentially the same time and maintained a fairly constant relationship. Antibody *c* was slow in appearing but developed rapidly toward the end of the period. There was a tendency for Antibody *a* to decrease, particularly in relation to the gross titer of the serum and to the titer for *B*, which maintained its position as major, species-specific factor.

The organisms used for analysis of stable antigens were represented by Type 1 (*I, II, III*), Type 3 (*II, III, IV*), and Type 4 (*III, V*). The response to the individual factors showed somewhat more irregularity than to the individual labile factors, especially with respect to Factor *III*. In two of the serums, Antibody *iii* was very low in the early part of the immunization but showed a marked increase later, when the other antibodies in the two serums were decreasing. Toward the end of the period the combination of increase in Antibody *iii* and decrease in the major antibodies resulted in a titer of Antibody *iii* which was practically the same as the titer of the major antibody. The existence of two additional minor stable factors was demonstrated by the failure of the antigen complex *II, III, IV* to remove from the serum complex *i, ii, iii* all activity for *III, V*, and by the failure of *I, II, III* to remove from *ii, iii, iv* all activity for *III, V*. Confirmatory evidence was obtained by reciprocal adsorption. The new factors were designated *VI* and *VII*, *VI* being a factor common to Types 1 and 4, and *VII* being present in Types 3 and 4. The antibody response to these factors showed considerable variation with time.

To test the effect of various treatments on individual antigenic components, bacterial suspensions were exposed to agents commonly used in preparing labile and stable antigens. For the labile antigens, these agents were moderate heat (60° C., 15 minutes), 2 per cent formalin, 0.1 per cent chloramine-T, 0.1 per cent merthiolate, and phenol (2 per cent for immunizing, 1 per cent for adsorbing). Untreated living cultures



of motile organisms were used as controls. Broth cultures of the organisms were centrifuged and the sediment was resuspended in salt solution containing the designated concentration of killing agent. Heat-killed and live antigens were suspended in 0.85 per cent salt solution. Immunizing and adsorbing antigens were maintained in the concentration of agent used for preparing the antigen, except in the case of phenol, where the concentration was reduced in an attempt to prevent spontaneous agglutination. Because of the frequent occurrence of autolysis, spontaneous agglutination, and inagglutinability with the variously treated antigens, agglutination tests were carried out with antigens killed and preserved in 0.25 per cent formalin, frequent checks being made with freshly prepared antigens receiving the various treatments. The analysis of the serum against each treated antigen was controlled by a parallel analysis of a serum produced with the corresponding live antigen. Each serum was adsorbed with live antigens and with antigens receiving the same treatment as the one used to produce the serum under investigation. *Listerella* strains representing Types 2 (B, D) and 4 (A, B, C), treated with each of the various agents, were used for immunization. In addition to these two, a strain of Type 1 (A, B) was used for adsorption and agglutination.

None of the treatments had any effect on the major factor, B, or on Factor D. The agglutinogenic capacity of Factor A was markedly degraded by chloramine-T, merthiolate, and phenol. The concentration of Antibody a produced in response to phenolized antigen was only 1/100 of the concentration of a in serums produced with live, heat-killed, or formalin-killed antigens. Neither A nor C was affected by heat or formalin. The adsorptive capacity of the antigens was investigated by adsorbing every serum with variously treated antigens of the immunizing strain. No treatment had any effect on the over-all antibody response for any of the treated antigens, nor any qualitative effect on the adsorptive capacity of the antigens for corresponding antibodies produced in response to any of the treated antigens.

Stable bacterial antigens are commonly produced by treatment of motile organisms with prolonged heat or alcohol. Non-motile variants of a given strain are regarded as possessing a somatic structure identical with that of the motile organism. Heat- and alcohol-killed antigens were compared with live, non-motile organisms, with respect to the expression of individual stable factors. For immunizing and adsorption, suspensions of tryptose-phosphate agar cultures, grown at 37° C., were exposed to a temperature of 100° C. for two hours, or to eight volumes of 95 per cent alcohol at 37° C. overnight. After treatment, the suspensions were centrifuged and the sediment was resuspended in 0.85 per cent salt solution. Live, non-motile organisms were washed off the surface of the agar, centrifuged, and suspended in salt solution. For



agglutinating antigens, 0.25 per cent formalin was added to the suspensions of treated and live antigens to prevent the autolysis and spontaneous agglutination commonly occurring in such suspensions. Strains representing Types 1 (*I, II, III*), 3 (*II, III, IV*), and 4 (*III, V*) were used for immunization, adsorption, and agglutination.

There was no significant effect of treatment on the over-all antibody response nor on the antigenicity of the individual factors, except the minor factors, *VI* and *VII*. The agglutinability of the individual factors *I, II, IV*, and *V* was not affected by treatment, but Factor *III*, in the strains of Types 1 and 3, showed considerable variation in agglutinability. Consistent results were obtained only under one condition: that immunizing and test antigens be homologous with respect to treatment. Examination of the adsorptive capacity of the variously treated antigens yielded equally erratic results. In some instances, adsorption of a serum with the homologous antigen removed all homologous antibodies but left a residual titer for antigens of the same type but prepared by a different method.

Correlation of the results obtained in individual experiments produces a semblance of order out of the chaos of unrelated, often conflicting independent observations. Most of the discrepancies observed in the present study can be explained on the basis of the following summary of these correlated facts.

Fluctuations in response to labile antigens during immunization may result in different relative concentrations of two type-specific antibodies or of a type-specific and species-specific antibody. In some instances, analysis of serum from an animal yields a concept of the quantitative interrelationships of individual antigens of *Listerella monocytogenes* entirely different from the picture which would be obtained from serum of the same animal bled approximately a week earlier or later. These differences are not sufficient to affect the identification of an organism as a member of a given type of *Listerella*.

Fluctuations in response to stable antigens affect primarily the relationship between species-specific minor agglutinin and type-specific antibodies. The effect may be so great as to reverse completely the relative positions of major and minor antibodies. Thus the type-specific factor, which would be considered to be the minor factor on the basis of its low antibody response early in the immunization period, would be taken as the major factor if serum of the same animal had been analyzed a week to ten days later. These variable concentrations of antibodies specific for stable antigens are of greater significance than the fluctuations in antibodies specific for labile antigens. In the stable antigens the species-specific antibody is the one which exhibits the greatest variation, and which is present in extremely low concentration at the stage of immunization in which antigenic analysis is frequently conducted. It is

conceivable that serological relationships might be entirely overlooked in an analysis based on stable antigens alone.

Like the fluctuations in antibodies during the course of immunization, alterations in antigenicity produced by various treatments are limited to individual components of the antigens. Minor factors only are influenced by the methods used in preparing the antigens. Consequently the gross titer of the serum is not affected. In the labile antigens, those factors which are affected are not influenced alike. Factor *A* being degraded by chloramine-T, phenol, and merthiolate, and Factor *C* being influenced by merthiolate only. An explanation for the degrading action of one group of killing agents in the absence of effect by another chemical and heat may possibly be found in the structure of the reagents. The one feature common to those substances which influenced the labile antigens and absent from agents which had no effect is the aromatic structure of chloramine-T, phenol, and merthiolate. The greater specificity of the effect of merthiolate, indicated by the elective degradation of Factor *C*, might be occasioned by a spatial configuration or chemical constituent—possibly mercury—peculiar to merthiolate.

Perhaps it is significant that the labile factors affected by at least one method of treatment are those whose specific antibody responses show independent activity. Factor *A*, which is degraded by the three aromatic compounds, fails to stimulate an increase in antibody response in the latter half of the immunization period. Factor *C*, which is affected by merthiolate, is slow in stimulating the production of its specific antibodies.

Treatment of stable antigens induces alterations which are observed only if the test antigen and the immunizing antigen are prepared by different methods. This is a reflection of the effect on Factor *III*, which is expressed as differences in agglutinability and adsorptive capacity but not in antigenicity. The restriction of this variation to a single component, the failure of the antigen to recognize its specific antibody, and the dependence of the detection of the altered reactivity upon the use of similar antigens prepared by different methods, suggests the possibility of phase variation, the variation being either induced or emphasized by differences in treatment.

The role played by conditions of growth, as emphasized by Paterson in the statement of his methods for antigenic analysis of *Listerella*, may be added to the above conditions under which antigenic variation is most likely to occur. Paterson observed that cultivation of the organisms at 25° C. was necessary to assure the greatest development of flagellar antigens. Most of the discrepancies between analyses of *Listerella* appear to result from differences in growth temperature, the majority of workers using organisms grown at 37° C., and, therefore, probably detecting stable antigens only.

The complete qualitative and quantitative antigenic analysis of *Listerella monocytogenes* depends upon rigid adherence to a set of conditions essential to the full expression of the individual antigenic components. These conditions are: (1) the use of serum containing the full complement of individual factor-specific antibodies; (2) the use of the same method of preparation for immunizing, agglutinating, and adsorbing antigens; (3) observation of growth conditions which allow the best expression of the individual labile components. The first condition can be met only by knowledge of the stage of immunization during which the full complement of antibodies is present, for each strain used in the analysis. Of primary importance in the third condition is the temperature of incubation of the cultures.

This rigid set of conditions was established specifically for the antigenic analysis of *Listerella monocytogenes*, a species which exhibits considerable variability in its morphological and cultural characteristics, and which, therefore, may be more dependent for antigenic stability upon optimal conditions than other groups of bacteria. Nevertheless, correlation between the results obtained in the present study and the few observations of a similar nature for other bacterial species suggest that similar principles should be established wherever an extensive analysis is to be carried out.



## STUDIES ON LIPOXIDASE

by MARIAN WOOD KIES \*

Lipoxidase, discovered by André and Hou in 1932, is an enzyme that catalyzes the reaction between certain unsaturated fats and oxygen. The product formed is thought to be a peroxide. Previous work indicates that the chief occurrence of the enzyme is in the legumes. Soybeans appear to be the most potent source, although similar catalytic effects have been observed in a variety of other plant and animal materials.

Soybean lipoxidase was considered by some to require the presence of the grouping  $-\text{CH}=\text{CH}(\text{CH}_2)_n\text{CO}-$  for its action. Süllmann (1941c), Sumner (1942a), and Strain (1941) have reported slight oxidation of oleic and ricinoleic acids in the presence of lipoxidase. This may be ascribed to contamination of these acids by linoleic acid, an occurrence which is not uncommon. Linoleic and linolenic acids were much more effective as substrates.

Lipoxidase is of interest to students of nutrition and physiology as well as students of enzymology. Its importance in the field of nutrition is indicated by the number of reports concerning its destructive action. For example, loss of vitamin A in animal feeds (Hauge, 1935), development of off-flavors in milk (Kende, 1932) and meat products (Lea, 1939), and destruction of vitamin A and carotene in the alimentary tract (Hove, 1943) have all been attributed to lipoxidase action. Other investigators concerned with physiological problems have suggested that unsaturated fat oxidation may be involved in the mechanism of oxygen activation in animal tissues. The cyanide-resistant respiration observed in these tissues by Dixon and Elliott (1929) was considered by Kuhn and Meyer (1929) to be due to oxidation of unsaturated fats since the hemin-catalyzed oxidation of linoleic acid is not inhibited by cyanide. This is in marked contrast to hemin-catalysis of other oxidations.

Further evidence for the physiological importance of unsaturated fat oxidation is reported in the present study. This evidence is based on the fact that the substrate specificity of lipoxidase parallels the nutritional efficacy of the unsaturated fatty acids, the occurrence of the enzyme in various animal tissues, and its resistance to inhibitors that repress oxygen uptake in the presence of other oxidative enzymes.

In order to study lipoxidase and its action independent of other catalytic effects, it was necessary to purify the enzyme. The effect of purified lipoxidase on the oxidation of carotene and leuco-o-chlorophenol indophenol, as well as on peroxide formation, was investigated.

\* B.S. 1936, University of Illinois; A.M. 1938, The George Washington University; Ph.D. conferred May 31, 1944.

At the beginning of the study, there was no quantitative method for determining lipoxidase activity. The first consideration, therefore, was the development of an assay procedure. The method devised is based on the rate of carotene oxidation in the presence of the enzyme and ethyl linoleate. Under certain conditions carotene destruction, which can be measured colormetrically, is proportional to enzyme amount and offers a suitable means of evaluating the latter. The method is so simple that, after the necessary solutions and equipment are assembled, one operator can carry out the determinations at the rate of 20 or 30 per hour with little difficulty.

Rate of carotene oxidation is greater at pH 6.5, the optimum pH for peroxide formation observed by Sumner and Dounce (1939). The reaction is not affected by variations in temperature between 15° and 35° C. but is depressed slightly by higher or lower temperatures.

Lipoxidase was prepared from several varieties of soybeans. A purified protein obtained from the Wilson variety was over one hundred times as active with respect to protein content as the original soybean meal. The enzyme was extracted from defatted soybean meal by means of dilute acetate buffer. This was preferable to water for the extraction as it left more inactive protein in the insoluble residue. The solution was neutralized and fractionated with ammonium sulfate to remove globulins and any protein soluble in 0.5 saturated ammonium sulfate. After dialysis the enzyme solution was treated with crystalline purothionin to precipitate inert protein not removed by the preliminary treatment. The specific activity of the protein so obtained could be improved slightly by ammonium sulfate fractionation, but further treatment usually resulted in loss of activity. For this reason, and because the purified preparation appeared to possess no other enzyme activity, it is believed that the isolation of an active homogeneous protein by means of electrophoresis is possible. Suitable equipment, however, was not available for such an experiment.

Investigation of the substrate specificity of lipoxidase revealed that the required grouping is not  $-\text{CH}=\text{CH}(\text{CH}_2)_7\text{CO}-$  as had been suggested previously, but  $-\text{CH}=\text{CH}-\text{CH}_2\text{CH}=\text{CH}-$ . It is uncertain whether a

$$\begin{array}{c} \text{O} \\ || \\ -\text{CO}- \end{array}$$

group is required, but esterification of the  $-\text{COOH}$  group modifies peroxide formation with linoleic acid, as well as the effect of the latter on carotene oxidation. Rate of carotene oxidation is increased by use of the ester, whereas rate and extent of peroxide formation are decreased.

It is significant that the compounds susceptible to lipoxidase action are the nutritionally essential fatty acids. Furthermore, all of the compounds incapable of oxidation in the lipoxidase reaction that have



been tested in diet experiments are unable to substitute for the essential fatty acids. This observation, in conjunction with the demonstration of lipoxidase in animal tissues, has been interpreted as an indication of the physiological function of the essential fatty acids.

The action catalyzed by lipoxidase was found to occur only in the presence of oxygen. Dehydrogenase activity reported in crude enzyme preparations by Hummel and Mattill (1944) was not present in a purified preparation of comparable lipoxidase activity. Under anaerobic conditions the enzyme is remarkably stable in the presence of substrate, whereas it is quickly destroyed by the aerobic reaction. This is further evidence for the lack of any anaerobic reaction catalyzed by the enzyme.

Tests with purified enzyme revealed the presence in heated soybean extract, as well as other materials, of an unidentified compound capable of enhancing lipoxidase action. This substance, which appears to be polypeptide in nature, increases the rate of peroxide formation as well as the rate of carotene oxidation.

The effect of the activator is believed to be on the substrate and not on the enzyme. The activator must be added to the substrate first or mixed with the enzyme to exert its action. The amount required for maximum effect varies with the amount of substrate. Conditions affecting activation of lipoxidase are similar in many respects to those affecting inhibition of the enzyme by purothionin, a protamine-like material isolated from wheat in lipid-combination. Since this compound appears to inhibit lipoxidase action through its effect on the fat, the activator probably exerts its effect in the same manner.

Inasmuch as the concentrated activator differs from the crude material in its effect on peroxide formation, definite conclusions regarding the function of the activator cannot be drawn. Crystallization of the active compound is a prerequisite to such conclusions.

Consideration of the chemical reaction catalyzed by lipoxidase suggests that the formation of peroxide at the site of a double bond may not be the complete explanation of the effect of the enzyme. With crude enzyme some carbonyl derivative is formed (confirming Süllmann, 1942). The peroxide value of the substrate as determined with ferrous thiocyanate, increased simultaneously with increase of carbonyl derivatives. The results, although not conclusive, are not indicative of formation of carbonyl at the expense of peroxide. The carbonyl compound might have been derived from oxidation of impurities in the crude enzyme and not from the fat itself.

Demonstration of lipoxidase activity in the presence of sodium cyanide and sodium azide constitutes the first evidence of true oxidase action unaffected by these reagents. It has been reported by Süllmann (1941b\*)

\* The original publication is not available in this country and the conditions used by Süllmann in his experiments are not known. The results are summarized in the reference cited.



that sodium azide inhibits lipoxidase action. In the present experiments sodium azide was without effect on carotene oxidation. Results with sodium cyanide agree with previous reports on its action (Süllmann, 1941c; Craig, 1936). In view of the accumulated evidence on the peculiarity of catalyzed oxidation of unsaturated fats with respect to inhibition by cyanide, resistance of lipoxidase action to cyanide is not unexpected. Catalysis of unsaturated fat oxidation by hemoglobin (Robinson, 1924) and hemin (Kuhn and Meyer, 1929) is unaffected by sodium cyanide. Oxidation of phospholipids in the presence of an iron-containing protein from liver is also insensitive to cyanide (Elliott and Liber, 1944).

Evidence is presented for the existence of lipoxidase in gastric mucosa, duodenal tissue, and heart muscle. This confirms the work of Hove (1943) which demonstrated its presence in gastric mucosa and liver.

Although the present study of soybean lipoxidase was not intended primarily as an investigation of the physiological significance of the enzyme, the following observations are pertinent to this question: (1) The fatty acids capable of acting as substrates for lipoxidase are essential elements in the diet of experimental animals. (2) The ability of lipoxidase to oxidize other materials in the presence of unsaturated fats is remindful of the similar ability of cytochrome oxidase in the presence of the cytochromes, although the reversibility of the lipoxidase reaction has not been demonstrated. The materials found to be susceptible to oxidation by the lipoxidase system are: \* carotene, vitamin A, xanthophyll, chlorophyll, bixin, hydroquinone, catechol, pyrogallol, dopa, adrenaline, guaiac, orcinol, benzidine, p-phenylene diamine, ascorbic acid, leuco dyes (c-chlorophenol, indophenol, and others), and methylene blue.† (3) Lipoxidase action might account for the cyanide-resistant respiration of tissues observed by Dixon and Elliott (1929) inasmuch as the enzyme is not inhibited by cyanide. The importance of unsaturated fatty acids in tissue respiration has long been suspected. Until recently no well-defined catalyst capable of activating oxygen in the presence of unsaturated fat had been found in animal tissue. Hove's work (1943) and the present investigation give proof of the existence of such a catalyst.

Specific results of the studies on lipoxidase are:

1. Development of a dependable method of assay.
2. Purification of soybean lipoxidase resulting in a hundred-fold increase in activity of the enzyme protein.

\* Some of the findings are original, while others confirm previous work (Sumner and Sumner, 1940; Süllmann, 1941b; and Strain, 1941).

† Oxidative destruction of the blue dye—not the oxidation of the leuco form which takes place spontaneously in air.

3. Discovery of an activator the presence of which markedly affects the reaction catalyzed by lipoxidase.
4. Elucidation of lipoxidase specificity.
5. Proof of the necessity of molecular oxygen for lipoxidase action.
6. Proof of the existence of an enzyme similar to lipoxidase in animal tissue.

## EDMUND BURKE AND IRELAND

by THOMAS DONALD MAHONEY \*

Edmund Burke's connection with the affairs of Ireland is a subject which has failed to receive sufficient emphasis. Burke's biographers and the host of those who have assessed his contribution to political thought agree upon the important role his native land and its affairs played in his life. Yet one will search in vain for a satisfactory study devoted to this subject. This dissertation is a modest attempt to remedy that deficiency.

Study of Burke's connection with Irish affairs has revealed that his interest was motivated by three factors. These were his great devotion to the British Empire, his sympathy for, and understanding of, the Roman Catholic religion and its Irish adherents, and his hatred of oppression. As a field in which he expended his talents, Ireland enjoys the unique distinction of having occupied his attention over the period of his entire life. Significantly, both his first political work and the last letter on public affairs written by Burke and published during his lifetime were on the subject of Ireland. The former was the *Tracts Relative to the Laws Against Popery in Ireland*; the latter was published as *A Letter on the Affairs of Ireland*.

Despite the fact that no other phase of his career was destined to cover such a long period of his life, nor was any dearer to him, Edmund Burke did not consider his labors for Ireland his chief claim to fame. On various occasions, he has stated that he considered his efforts on behalf of the "undone millions" of India to have been his most important. Likewise more spectacular than the cause of Ireland were his defense of English liberties in America and his prescient opposition to the principles of the French Revolution. These have captured the attention of many students of Burke. By contrast, his more prosaic connection with Irish matters has been minimized or neglected. Perhaps the reason for this may be found in Burke's own basic approach to the subject.

It was his firm belief that the problems of Ireland required a very cautious advance because their roots lay deep in the past. The grievances under which Ireland labored had existed for many years. Therefore, he felt that they required a leisurely correction rather than an abrupt one. Such a manner of redress lent itself better to the eradication of prejudice, which might only be further strengthened by precipitate action. On the other hand, this method of proceeding by degrees would prevent those who had been long repressed from becoming intoxicated with power once the restrictions binding them had been removed. Consequently, Burke approached the problems of Ireland gradually, albeit determinedly, through the years.

\* A.B. 1936, A.M. 1937. Boston College; Ph.D. conferred May 31, 1944.



His efforts for Ireland's welfare have shown Burke a statesman of principles. Among the principles he applied in this business were those of toleration, prudence, conservatism, liberty, charity, justice, and expediency. Their application was always determined for Burke by time and circumstances. He was quick to recognize that the distresses of England could frequently be turned to the immediate advantage of Ireland and to the ultimate advantage of the Empire itself. In this manner he was satisfied that he was serving both his adopted country and that of his birth. He frequently proclaimed the belief that their interests were inseparable. It was his prayer that disputes between the two would be rare. If such did happen, he would endeavor first to reconcile the disputants. He felt that it was his special problem to discover ways and means of uniting the disputants. Should he fail to settle the difficulty which arose, it was with England that he would side because she was the more important and he felt his debt to her was even greater.

When Burke entered the British House of Commons, he was, in a sense, placed in a difficult position. His Irish birth and training, his rich brogue, and his numerous Irish relatives and connections seemed to point in the direction of his becoming a virtual Irish lobbyist. Those who felt that such would be the case were soon to learn that Parliament possessed no member who was more devoted to the British Empire than this "Irish adventurer."

Most important motivating force behind Burke's work for Ireland was this great attachment he had for the British Empire. His love for the Catholics and his hatred of oppression were both intimately connected with this prime factor. Apart from all other considerations, Ireland's geographical location so close to the heart of the Empire would have made the welfare of that country tremendously important to him. He looked upon the land of his birth as a woman ordained by nature to be protected. That protection, in the very nature of things, could come only from England or France. He was determined that it should be England which would supply that care. However, the manner in which it was to be done was important to Burke. He ruled out force, which was only temporary, and advocated the application to Ireland of a spirit of magnanimity. Ireland should be made happy and contented. Her happiness would bring strength to the Empire, which could only be strong and prosperous as its parts were. Burke was convinced that no reluctant tie could be a strong one. A natural, cheerful alliance was far more desirable than any principle of subordination which was suffered with discontent.

His goal for Ireland was neither complete independence nor, on the other hand, amalgamation or union with England. In 1782, when Ireland was given its legislative independence, Burke approved because he felt that in all matters of interest to Ireland itself she should have

legislative freedom. In all imperial concerns, however, England would dictate the course to follow. Her manner in this business should not be haughty and imperious but rather that of a natural leader who realizes what is to the best interests of those under her. He envisaged a system of mutual help. Certain disadvantages were bound to accrue to the parts of the Empire because they were parts and not the center. However, the advantages which came from membership in such a powerful body far outweighed the inconveniences. One of the disadvantages was in the field of trade and commercial affairs. After having played a signal role in securing better trading facilities for Ireland in 1778-79, Burke drew the line in 1785 when Ireland was offered full equality in this field by Pitt. Burke felt that realities placed too many obstacles in the path of making such a goal feasible. He felt, too, that Pitt's propositions were dangerous because either Ireland might become independent as a result of them or she might well be drawn into a union with England. Both alternatives were equally distasteful to Burke, who held that Ireland's legislative independence was the most that England could be expected to do for her.

On the whole, Burke was far more liberal in his treatment of Irish questions than his contemporaries because he understood them, as no Englishman of his generation did. He saw how important Ireland was to England and how unwise it was to treat her narrowly and ungenerously. He came to see in the successful revolt of the American Colonies an illustration of what Ireland, too, would do if she were senselessly and continuously provoked. Ireland must never be permitted to do anything so drastic and fraught with ruin both for herself and the Empire. To prevent a serious Irish uprising, concessions should be given her. These were of two kinds. One aimed at ending external misrule; the other was directed toward the cessation of internal misgovernment.

As far as Burke was concerned, the first was accomplished through the grants of commercial relief to Ireland by the British Parliament in 1779 and 1780 and by the award of legislative independence to Ireland in 1782. From that time forward, Burke held consistently to the view that Ireland itself had no cause of grievance where England was concerned. These grants had corrected external misrule and in themselves constituted all that England could justifiably be expected to do for Ireland.

The correction of internal misrule involved two steps. The first of these was the improvement of the position of the Roman Catholics of Ireland. These people constituted the vast bulk of the country's population. The second step was the ending of the power of the Irish monopolists of place, the Ascendancy.

From the start, Burke had a personal motive in improving the lot of



the Irish Catholics. His mother and sister were lifelong Catholics, as were a large number of his relatives. His own wife had been a Catholic at the time of their marriage. The restrictions placed upon those so near and dear to him provided him with a personal motive for helping the Catholics, and his intimate connection with members of that religious faith gave him an understanding of the religion which became respect and admiration.

Although this consideration had originally attracted him, it was by no means his only reason for seeking to aid the Catholics. His mind was one which worked upon concrete objects. The Catholics of Ireland were a numerous people, equal to the population of Sardinia or Denmark and exceeding that of the Swiss states. Experience taught Burke the impolicy and inexpediency of proscribing whole nations from the constitutions under which they were born. The Penal Laws against the Irish Catholics were unlike any system of religious oppression in existence or any with which history had made him familiar. Moreover, the mistreatment of this people who constituted the vast majority of Ireland's population was not in accord with the principles of the Glorious Revolution.

Burke held justifiably that the position of the Irish Catholics was one which was not fit to endure. The members of the Established Church in Ireland were too numerous to form an aristocracy in the true sense of the word and, on the other hand, not numerous enough to compose a democracy. The solution to the situation, as Burke saw it, was first to restore the Catholics to the franchise and, then later, to grant them the privilege once more of holding seats in the Irish Parliament. The stand he adopted in this respect involved him in an apparent inconsistency. He was a vigorous opponent all his life of reformation of the British Parliament through extension of the franchise. This would have meant the return of the voting privilege to many Englishmen whose ancestors had been deprived of the right since 1430. Hence, to favor granting the franchise to the Catholics in Ireland was the equivalent of advocating a reform in the Parliament, while at the same time he was opposed to reform in Britain. The answer is that Burke felt that the Catholics of Ireland were completely unrepresented in their legislature, whereas, the British who lacked the franchise had in its stead the blessing of virtual representation. It was a favorite argument of his that the Irish Catholics sorely needed the shield which a vote represented because candidates for office in that country did not need to consider their interests. In fact, office-seekers could expose the voteless Catholics to those various forms of discrimination which influence Catholics. This was done to curry favor with the most rabid anti-Catholics among their constituents.

Burke laid the cornerstone to eventual Catholic emancipation through



the years of work he did for the Catholics of Ireland. When in 1793, the Catholics of Ireland won the franchise on a very satisfactory basis, Burke felt that the ultimate privilege of holding Parliamentary seats would soon follow. Defeat of this dream in 1795 brought from him the accurate prediction that a revolution would result. Fortunately, he himself did not live to witness this tragic event.

Over and above the fact that Burke had personal motives for wishing to promote the welfare of the Catholics of Ireland was the fact that he saw that they were necessary to Britain's connection with that country. They had repeatedly shown themselves loyal subjects of the king and for this reason alone he would have felt them deserving of amelioration. But when the French Revolution brought England face to face with a serious crisis, Burke saw that the Irish Catholics were the key to the preservation of Ireland against the detested principles of the Revolution. Their loyalty would mean the failure of the hopes of the United Irishmen to overthrow British rule and substitute a republican form of government sympathetic to France. Hence, from about 1790 until the end of his life in 1797, Burke was chiefly concerned with aiding the Catholics of Ireland. They in turn would repay the Empire by their gratitude, he argued. Had Burke's wisdom been appreciated, there can be no doubt that the tragedy of Ireland in the nineteenth and twentieth centuries would never have taken place.

Hence, it was a combination of his esteem for the Catholics of Ireland and their religion together with his devotion to the British Empire which entered so strongly into Burke's labors on Ireland's behalf. In his last years, he had come to liken the Catholic Church in Ireland to the original apostolic model, although he thought some improvements were needed to make the analogy more perfect. Its constitution, discipline, lack of wealth, and doctrines possessed an appeal for him which he did not seek to hide. His own deference to authority, tradition, and prescription made the cause of the Catholics dear to him. If they were made happy and strong, Ireland would be a powerful help to England and his sentimental attachment would return a dividend for the Empire. Edmund Burke was well qualified to undertake the task of ameliorating the position of the Irish Catholics. Had it not been for him, the lot of the Catholics would not have been improved to the extent that it was. He was ever mindful of the interests of this oppressed people and never ceased trying to impress the various British Governments with the need for helping the Catholics. He was the one above all others who did the most to portray the picture of Ireland in its true light. He constantly attacked the abuse of power on the part of the fierce anti-Catholic Ascendancy in Ireland. Their misdeeds constituted Ireland's internal misrule.

The Anglicans constituted the ruling class in Ireland. Despite the

fact that they were in numbers only a small minority, they possessed a complete monopoly of power. Virtually all political and social privileges were in their hands. Their church, the Church of Ireland, was the Established Church, for the support of which the poverty-stricken masses of the Catholic peasantry were mercilessly hounded by the dreaded tith-proctors. Ireland's Parliament was a mere instrument of their pleasure in a great many respects. On the whole, they were an intolerably proud aristocracy whose corruptness was notorious.

Because Burke prided himself upon his comprehension of realities, this situation outraged him. What he had witnessed in his youth in Ireland and upon the occasions of his later residence there and his visits was the degradation of human nature. The misgovernment of Ireland shocked and revolted him. He knew that the worst way of handling the country's affairs which could have been devised was that of leaving it to an arrogant caste whose sole aim was to enrich itself and maintain its power. It exasperated him to realize that this power was dependent upon the British government. This body customarily neither knew nor cared what went on in Ireland and accepted the reports of the various Lord Lieutenants who were putty in the hands of the Ascendancy. Time and again, Burke cried out against this callousness, yet strangely he did not place the blame on England for Ireland's plight. He absolved her of all guilt except that of indifference. His view in this matter was contrary to the one which prevailed in Ireland among both Catholics and Dissenters. Nevertheless, no man worked harder to break the power of the Irish monopolists by opening Britain's eyes to their faults.

He showed the falsity of their strongest arguments. To maintain their grip on the Catholics the "junto of robbers," as Burke called them, was prone to charge that the Catholics were constantly guilty of participating in foreign plots to destroy the government. France was usually pictured as the fellow conspirator, and the Pope was customarily painted in menacing colors. Burke often proved that whenever the Catholics of Ireland were involved in outbursts against the authorities, they were by no means the only people involved. That they always outnumbered the Protestants who participated in such tumults was due to the fact that they were the far more numerous segment of the country's population. Likewise, he frequently showed that the cause of these various uprisings and movements, such as the Whiteboys, was universally economic and not religious. Moreover, he argued that the fear of the Pope was an unwarranted one which was falsely raised.

In his war against the Ascendancy, Burke was the loser, although he came close to achieving victory during the Viceroyship of his friend, Earl Fitzwilliam. He died aware that the "jobbing system" had triumphed and he had lost. His hatred of oppression had entered strongly



into his fight on behalf of Ireland's welfare and can be said to have been intimately connected with the two other great motivating forces in this "great, just, and honourable cause."

In the long years of this event in Burke's life, he was ever guided by a judicious regard for time and circumstance. In this respect, we find that he watched for instances where England's distress of the moment could be turned to the permanent advantage of Ireland and the Empire. Such cases as the Seven Years' War, the Wars of the American Revolution, and the Wars of the French Revolution serve as illustrations. At such times, Britain was engaged in a serious crisis and needed her full strength to meet the opposition. Thus, it was always a good time to advance the cause of Ireland because it would be foolishness to add trouble with Ireland to the other difficulties England was facing. Apart from such obviously propitious occasions, Burke followed a course of gradual action because he thought it was the part of wisdom never to proceed precipitously.

In the lifetime Burke devoted to Ireland's improvement, he laid the cornerstone of Catholic emancipation and helped to free the Catholics from the restrictions placed upon the free exercise of their religion. He emphasized for all to see that it was a physical impossibility for the Catholics to be forced into giving up their religion. On the other hand, he did not think that Catholic Ireland could throw off a Protestant government. Hence, he asked both sides to be realistic and to make the best of the situation by living together happily and in peace. Secondly, he achieved for the Protestants of Ireland relief from the burdensome commercial restrictions which plagued their intercourse with the rest of the world. If he would not go all the way and put Ireland on equal footing with England in this respect, it was for good and substantial reasons. Thirdly, he consistently upheld Ireland's right to maintain her legislative independence. The principal weakness of his connection with Ireland's affairs was his failure to stress the horrible agrarian conditions in the country, although he did put them at the root of the frequent tumults which vexed Ireland during his life.

His championship of Ireland's welfare cost him his cherished seat at Bristol and was the cause of much anguish to him through the years, but to his everlasting credit he never ceased trying to overcome narrowness and bigotry.

At his death, Edmund Burke felt a sense of discouragement over Ireland. He thought that another of his "great, just, and honourable causes" had culminated in failure. On the contrary, he had done much to aid the land of his birth during his lifetime, and many of his arguments were destined to be used with good effect in the long years of the bitter struggle which characterized Ireland's future history. Thus, his power to benefit his native land did not end with his death.



## THE WEAK VERB IN NOTKER LABEO

by FRITJOF ANDERSEN RAVEN\*

From 1885 to 1889, critical studies of the verb and substantive in Notker by J. Kelle were published in Vienna and Berlin. Using a master list drawn from the foregoing as a guide, the first complete compilation of the weak verb in Old High German, wherein all occurrences of each verb are included was made from unpublished vocabulary material collected by E. H. Schrt and T. Starck from P. Piper's edition of Notker which appeared in Freiburg and Tübingen in 1882.

Kelle's list, which contains what he considered a normal infinitive or first person present indicative plus a list of variant forms for each verb, was found to be considerably too large for several reasons. First, he suggests a new verb regularly on the basis of past participles compounded with prefixes; second, he gives a number of verbs which do not exist because he failed to analyze the meaning of the form encountered in the text; third, he attributes a number of forms to more than one conjugation on the basis of a single sporadic variant which is frequently either scribal or analogical.

Next a study was undertaken, based on the new data gathered, of each of the three weak conjugations, with special emphasis on the second. The first conjugation, numbering some eight hundred different verbs, was shown to contain causative verbs constructed by attaching the Indo-European \*-io suffix to the o-grade of the stem, whereas the third conjugation which contains about two hundred and forty-five verbs was found to be intransitive in nature and hence the logical place for a few new denominatives denoting a change of state. These were made from adjectives such as *chalt* 'cold' which gave *chalten* 'become cold'. As they are few, the total number of verbs in class three must be attributed to conservatism in Old High German, rather than to any considerable tendency toward productivity. Its intransitive character, which could be exploited without resorting to more involved passive constructions, probably contributed largely to its preservation also. Because the second conjugation in Old High German was highly productive of new formations, it increased more than the other two proportionately. The various methods of verb formation, responsible for increasing the number of second conjugation verbs to the impressive total of over six hundred, are outlined. They include the development of several clipped suffixes -*eron*, -*elon*, -*enon*, and -*eson*, from original liquid, nasal, and sibilant consonant stems, e.g., *ruoderon* 'row' from *ruoder* 'oar'. The development of the suffix -*eron* was supported by the formation of numerous verbs from the comparative degree of adjectives, as *bezzeron* 'better', from *bezzar*

\* A.B. 1934. A.M. 1939. University of Washington; Ph.D. conferred May 31, 1944.

'better'. Another fairly imposing group of new verbs were constructed from adjectives which had been made by adding the adjectival suffixes *-ig*, *-haft*, *-lih*, and *-sam* to nouns. Examples of this group are *birigon* 'make fruitful', from *birig* 'fruitful', or *rehthafton* 'justify', from *rehthaft* 'justified', or *lussamon* 'delight' from *lussam* 'delightful'. A few additions to the list were supplied by the suffix *-exon*, adapted from the first conjugation. This suffix, originally of Indo-European origin, had gradually assumed iterative and intensive force in Germanic, cf. *roffexon* 'belch'. Another large group of new verbs was derived from nominal compounds. These were found to be of varied nature and second conjugation formations without exception. Combinations of nouns furnished the source in some cases, e.g. *brust-pendel-on* 'to provide with a breast band' from *brust-pendel* 'breast band', c.f. *fahs-pendel* 'hair ribbon', others came from adjectival combinations such as *ge-uuit-preiton* 'to broadcast' from *uuit-preit* 'wide broad'. Five-sixths of these compounds occur only in Notker's writings. They reveal Notker's rare ability to handle the language and to exploit its flexibility to a high degree for the purpose of expressing fine shades of meaning he encountered in the Latin originals he was translating. The remaining new verbs are simple denominatives such as *badon* 'bathe' from *bad* 'bath' and *zanon* 'to provide with teeth' from *zan* 'tooth'. They are included in the list and require no special comment.

Finally, the weakening of the sonorous endings of Old High German which resulted in a single weak conjugation in Middle High German was recognizable in the preterite particularly, where a chaotic situation exists. Hence, verbs in Old High German cannot be classified according to preterite forms. Indeed, no classification of weak verbs in Germanic is safe without consideration of the meaning of the verb. This is particularly true in the language of Notker which represents a transitional stage between earlier Old High German and Middle High German.

The statistical approach herein used offers the only reliable basis for generalization.

## THE PREDICTION OF LEARNING ABILITY FOR CERTAIN TYPES OF MECHANICAL SKILL

by SIDNEY JANUS\*

In order to determine the predictability of learning certain types of mechanical skill, the relationship between success in acquiring these skills and a variety of prognostic factors was studied.

As a background to the study of predictability in this field, the work of previous investigators was surveyed. Recurrent in the psychological literature is the theme of the multiplicity—or singleness—of the factors involved in analyzing mechanical ability and in predicting vocational success. Investigators have examined the extent to which such traits as general intelligence and temperament, as well as other abilities and interests play their part.

Notable contributions have been made by the Minnesota investigators who concluded that no single general factor was of importance in mechanical ability, but that highly specific elements were involved.

During the past several years, the development of specific aptitude batteries to predict success in specific occupations has proceeded apace. This work has largely been the concern of the Occupational Analysis Section of the United States Employment Service and represents a major contribution to vocational prognostication. Up to the present writing, over 160 such batteries have been developed. There yet remains, however, an important job to be done by way of checking the validity of these batteries on additional samples.

Previous work too has been concerned with either the isolation of factors important to success in mechanical work, e.g., Cox and Harrell, or with the prediction of success in specific fields, e. g., Seashore, Pond, and Stenquist. Poffenberger and Viteles have emphasized the importance of prosecuting research in this field since every datum added to this area of vocational prediction brings us closer to the realization of a major responsibility of society.

In this investigation, a sample of 628 male trainees enrolled in vocational schools giving training for mechanical work at a southeastern air depot was selected. However, because of inevitable turnover in the ranks of these trainees ranging in age from 17 to 30, only 494 were actually investigated. The courses of study in which these trainees were enrolled included the following: Aircraft Sheet Metal Work, Aircraft Engine Mechanic Work, and Aircraft Machinist Work. A majority of these trainees had no previous vocational training. Most of them, however, had some previous mechanical work experience ranging from one month to two years. In formal education, the trainees

\* B.S.S. 1933. College of the City of New York; A.M. 1934. Columbia University; Ph.D. conferred September 19, 1944.



ranged from grade school to completion of two years collegiate work.

Each of the trainees was assigned to a specific course of study wherein the jobs to be mastered were prescribed for all trainees. As the trainee completed a specific job, his learning time for that job was recorded by his instructor. At the completion of a course of study, a student's progress record showed his learning time scores for each of the jobs assigned to him as prescribed in his course of study.

The sequence for developing the criterion of success in learning as used in this study was as follows:

1. In each course of study, instructors assigned a prescribed series of tasks to each trainee.
2. Each trainee performed each task carrying out the operations to completion.
3. For each task or job, the instructor recorded the time consumed by the trainee on that job as shown on the following page.
4. A progress record was maintained for each trainee upon which the data showing time required for each job in his assigned course were recorded.
5. At the completion of all his assigned tasks, the average learning time for each trainee was computed. This reflected merely his own performance and was not influenced by the performance of the group.

The relationship between the postulated prognostic factors and the criterion scores for the acquisition of mechanical skill was studied by the Wherry-Doolittle technique.

The prognostic factors set up for this investigation included a specific aptitude battery for each course of study listed above, developed by the Occupational Analysis Section of the United States Employment Service; the Minnesota Paper Form Board published in 1934 by Likert and Wuasha, designed to measure the ability to perceive spatial relationships of a two dimensional character (a performance basic to mechanical ability); the Survey Test of Vocabulary, by O'Rourke; the W. A. S. Finger Dexterity Board, and the W. A. S. Tweezer Dexterity Board developed by the Worker Analysis Unit of the Occupational Analysis Section.

The procedure for assembling the data necessary to this investigation was as follows:

1. Explanation of the purpose of the investigation to officials responsible for the training of the subjects. These included officials of the Air Depot as well as those of the training stations.
2. Arrangements completed with instructors of the subjects to administer tests (prognostic factors).
3. Conferences with instructors in specific courses of study in regard to the recording of learning time of each trainee for each of a complete series of jobs in a given course of study.

4. Observation of trainees at work to determine adequacy of criterion data (learning time).
5. Tests administered: paper and pencil tests in groups ranging from ten to twenty trainees; apparatus tests administered to individuals.
6. Classification of subjects with respect to age, previous training and experience based on study of personnel records and supplementary questionnaire.
7. Scoring of tests and tabulation of results.
8. Recording of learning time as arranged in 3 above on master data sheets. The reliability of these data was ascertained.
9. Construction of tables showing distribution of learning time for each course of study.
10. Statistical analyses.

Analysis of the data by the Wherry-Doolittle method showed that a specific battery was more predictive of success than other prognostic factors for both aircraft engine mechanic and aircraft sheet metal work. However, the addition of several prognostic factors to the battery for engine mechanic work did increase its predictive ability. The importance of this finding rests upon the fact that the prognostic factors so added must have demonstrated relationship to success in acquiring the skill involved and must be tested against the criterion of success.

Vocabulary taken as a factor by itself was found to be almost as predictive of success in aircraft engine work as the specific battery designed for that purpose. The significance of this finding is derived from the fact that the criterion of success was taken in terms of learning-time scores.

It was found that the apparatus tests employed showed a higher predictive value for success in learning certain types of mechanical skill than the test for spatial perception.

Analysis of the findings have led to the following conclusions:

1. The predictability of learning certain types of mechanical skill may be furthered through the systematic development of specific aptitude batteries for specific occupations.
2. The selection value of a specific aircraft sheet metal trainee battery and that of a specific aircraft engine mechanic trainee battery have been borne out in this investigation.
3. When several prognostic factors related to mechanical skill are added to a battery designed to predict success in an occupation and based on the study of one sample, the prognosticating value of the battery is increased. The added prognostic factors must be tested, however, against the criterion of success in learning as applied to the later samples.
4. Where the criterion of success in acquiring a mechanical skill is

learning time, the factor of vocabulary may be almost as predictive a measure of success as a specific battery designed for that skill.

5. The learning time of trainees in certain mechanical skills can be predicted on the basis of prognostic factors tested against learning time as a criterion.

6. The selection of trainees for certain types of mechanical work can be effected by means of tested prognostic factors with resulting economy in learning time and effort expended by the trainees.

7. The availability of adequate and objective criteria of success in acquiring mechanical skills enhances the predictability of measures of potentiality in those skills.

8. The coefficient of correlation between learning time scores achieved by Aircraft Sheet Metal trainees and a preliminary battery developed for this occupation was found to be  $-.750$ .

9. The coefficient of correlation between learning time scores achieved by Aircraft Engine Mechanic trainees and a preliminary battery developed for this occupation was found to be  $-.672$ .

10. Coefficients of correlation between learning time scores and vocabulary scores were found to be  $-.695$  and  $-.513$  for Sheet Metal and Engine Mechanic trainees, respectively.

11. The highest coefficient of correlation between the Aircraft Sheet Metal battery and one of the other prognostic factors employed was  $-.708$ , with the factor of finger dexterity.

12. The highest coefficient of correlation between the Aircraft Engine Mechanic battery and one of the other prognostic factors employed for this sample was  $.584$ , with the factor of Minnesota Paper Form Board.

13. A multiple correlation coefficient of  $.843$  was found between success in learning Aircraft Engine Mechanic skill and a number of prognostic factors employed in this study.



## THE DETERMINATION OF ASCORBIC ACID AND DEHYDROASCORBIC ACID IN PLANT TISSUES

by MYRNA JANE OESTERLING\*

Vitamin C is usually determined by methods based upon the strong reducing power of the ascorbic acid molecule, but, since it is difficult to exclude interference due to substances resembling ascorbic acid in reducing power, the results may not always be reliable. The recent development in this laboratory of a new method for vitamin C analysis makes possible a new approach to the problem of determining ascorbic acid in the presence of other reducing substances.

The originators of the new method, Drs. Joseph H. Roe and Carl A. Kuether have applied it to the analysis of blood, urine, and animal tissues. Its application to the analysis of plant tissues and various miscellaneous substances is herein described.

The Introduction includes a review of our present knowledge concerning the chemistry of vitamin C, especially as it relates to methods for the determination of this vitamin, thus providing a background for the subsequent studies in vitamin C methodology. A new tool for use in studying the chemistry as well as the physiology of this interesting compound is provided by the principles of the Roe-Kuether method.

The principles upon which this method is based are these: (1) oxidation of the vitamin to the dehydro form; (2) coupling of the dehydro-ascorbic acid with 2,4-dinitrophenylhydrazine; (3) production of a characteristic, stable, red color by the addition of sulfuric acid to the dinitrophenylhydrazine derivative; and (4) measurement of the color intensity through use of a photoelectric colorimeter equipped with light filter number 540. Certain of these principles have been subjected to further study. The results will be summarized under the following headings.

*Oxidation of Ascorbic Acid with Norit.*—Although ascorbic acid solutions are oxidized almost instantaneously by contact with Norit, the oxidized vitamin may be partially or completely removed from solution by adsorption on the Norit unless a substance such as acetic or trichloroacetic acid is present. In the presence of 4 per cent trichloroacetic acid complete protection is provided against loss of vitamin only when small amounts of Norit are used. Much better protection is provided by 10 per cent acetic acid. Three times the usual amount of Norit may be used without causing loss of vitamin. Trichloroacetic acid cannot be used at this concentration because it comes out of solution in the form of dense white crystals during the addition of sulfuric acid later in the analysis.

\* A.B. 1939, M.S. 1941, University of Illinois; Ph.D. conferred February 22, 1945.

*Role of Thiourea.*—That the presence, during the coupling process, of a small amount of thiourea (1 drop of 10 per cent) contributes substantially to the high degree of specificity of the method, has been amply confirmed. In the absence of a trace of thiourea, impurities in the Norit, such as ferrous iron, may give rise to extraneous color formation due to an oxidative action upon the dinitrophenylhydrazine reagent, apparently.

*Effect of Acetic Acid upon the Coupling Reaction.*—The presence of acetic acid decreases the intensity of color formed in the determination of vitamin C by the Roe-Kuether method. This lessened color production seems to be due to a decreased rate of coupling and the rate seems to vary inversely with the concentration of acetic acid, since, as the concentration of acetic acid is increased, the amount of color formed is decreased. This illustrates the importance of using the same concentration of acetic acid in preparing the calibration curve as in carrying out the analyses.

*Stability of Dehydroascorbic Acid.*—When solutions of dehydroascorbic acid are analyzed by the dinitrophenylhydrazine method after standing a few hours at room temperature, they show apparent increases in concentration. The magnitude as well as the rate of this increase is influenced by the solvent used for the vitamin. Thus, the most marked increases were noted in the presence of a mixture of 10 per cent acetic acid and 4 per cent metaphosphoric acid; e.g., 1.6 per cent in one hour, 6.5 per cent in four hours, 12.9 per cent in eighteen hours, and 10.5 per cent in twenty-seven hours. Less marked increases occur when a lower concentration of acetic acid is used with a given concentration of metaphosphoric acid. In the presence of either trichloroacetic acid alone or metaphosphoric acid alone the increases over a period of three or four hours are only about 1 per cent. However, when mixtures of metaphosphoric acid and trichloroacetic acid are used, the increases are approximately the same as those observed in the presence of mixtures of acetic acid and metaphosphoric acid.

A possible explanation for these observations is found in a theory recently proposed by Penny and Zilva. According to this theory, dehydroascorbic acid itself does not couple with dinitrophenylhydrazine, but must first be converted to a certain spontaneous transformation product, the structure of which has not been definitely established, although Penny and Zilva consider it to be 2,3-diketo-L-gulonic acid. On the basis of this theory the inhibitory effect of acetic acid upon the coupling reaction may be explained as actually due to an inhibitory effect upon the conversion of dehydroascorbic acid to the special transformation product. Similarly, the apparent increases in concentration which occur upon standing may be interpreted as due to more complete transformation of dehydroascorbic acid to the compound which couples.



It is concluded that, if a mixture of metaphosphoric and acetic or trichloroacetic acids is used as extractant or solvent, a delay of more than one hour should not occur between oxidation of vitamin to the dehydro form and continuation of the analysis.

*Effect of Over-incubation.*—Since the coupling reaction does not reach completion within the customary three hours at 37°, allowing it to proceed for a longer time or at a higher temperature, results in formation of more of the vitamin C derivative. The amount of error which is introduced by one hour of over-incubation at 37° is approximately 11 per cent when a mixture of 10 per cent acetic acid and 4 per cent metaphosphoric acid is used as solvent.

*Stability of the Color.*—Roe and Kuether found the red color, which is formed by treating the 2,4-dinitrophenylhydrazine of dehydroascorbic acid with 85 per cent sulfuric acid, to be quite stable. No change in galvanometer reading occurred within forty minutes after the first readings were taken and after standing for eighteen hours at room temperature in an open tube, the maximum fading was only enough to cause an increase of 2.25 points in the galvanometer reading. These results were obtained using trichloroacetic acid filtrates of blood. Similar studies involving the use of pure vitamin dissolved in 10 per cent acetic acid—4 per cent metaphosphoric acid have shown that in one hour the fading is no more than one unit on the galvanometer scale and in seventeen hours it is no more than 2 units. The Evelyn photoelectric colorimeter equipped with filter number 540 has been used throughout.

Certain modifications of the original 2,4-dinitrophenylhydrazine method have been made in adapting the procedure to analysis of plant tissues. Thus, an acid extractant containing 10 per cent acetic acid and 5 per cent metaphosphoric acid is employed in order to permit the use of increased quantities of Norit for purposes of clarification. Ordinarily 1 gm. of Norit to 50 cc. of filtrate is sufficient to clarify the extract as well as to oxidize the vitamin. However, when 10 per cent acetic acid is present, three times this amount of Norit may be used without resulting in loss of vitamin through adsorption on the Norit.

A slightly different calibration curve is obtained using this solvent than by using trichloroacetic acid (the solvent employed in the original procedure), slightly less color being developed with any given concentration of vitamin. The use of relatively dilute extracts is recommended because of the sensitivity of the method and because the effect of interfering substances such as fructose, glucose, xylose, and glucuronic acid become entirely negligible at high dilutions. In order to obtain a reading between 90 and 40 in the Evelyn colorimeter, the extract must contain between 1 and 10 micrograms of vitamin per cc.

Application of the principles of the Roe-Kuether method to the problem of determining dehydroascorbic acid in the presence of ascorbic acid



has led to development of a new method for dehydroascorbic acid which is entirely free of the objections made against oxidation-reduction procedures involving the use of hydrogen sulfide. The dehydroascorbic acid of a metaphosphoric acid extract, in which the ascorbic acid is stabilized with 1 per cent thiourea, is coupled with 2,4-dinitrophenylhydrazine and the resulting derivative treated with sulfuric acid to produce a red color. Although this direct method for dehydroascorbic acid determination is not always capable of the high degree of accuracy and precision which characterize the dinitrophenylhydrazine method for determination of total vitamin C, it nevertheless gives valuable information when used with due regard to its limitations. One important consideration is that solutions to be analyzed for dehydroascorbic acid should contain no more than 15 micrograms of ascorbic acid per cc. Otherwise the results will be too high. Another important point is that an individual blank must be made for each extract. This is necessary largely because treatment with Norit is omitted in this procedure. In addition to removing pigments and turbidity, the Norit treatment has been found to prevent the development of a yellowish color when metaphosphoric acid extracts of certain plants (e.g., lemon peeling, orange peeling, apple, kale, spinach, onion) are treated with 85 per cent sulfuric acid. Another difficulty which is encountered in the method for dehydroascorbic acid but not in the method for total vitamin C is a slow increase in color in the blank and unknown tubes. This increase, when it occurs, is usually approximately equal in the blank and unknown. As a result the reading of the unknown remains nearly constant, since before taking a reading the colorimeter is always adjusted to 100 with the blank tube in place. However, it is recommended that the readings be made without delay.

In spite of the seeming difficulties in the direct analysis of certain plant tissues for dehydroascorbic acid, satisfactory recoveries have been obtained when dehydroascorbic acid is added to extracts of these tissues and the comparative analyses herein reported show that the value for dehydroascorbic acid obtained by this new method of direct analysis approximates the difference between the values obtained by the dinitrophenylhydrazine method for total vitamin C and the indophenol method for the reduced form of vitamin C.

Preparatory to a comparative study of the values obtained using the photometric indophenol method and the newly developed dinitrophenylhydrazine methods, there is included in the Introduction a review of the principles upon which the photometric indophenol method is based, as well as a consideration of possible interfering substances and the techniques which have been devised to correct for these substances. Among the interfering substances, those which seem to present the most difficulty are the ones containing the endiol group. These substances, usually designated "apparent vitamin C", have been found by Mapson to occur

in dehydrated or caramelized foods. With regard to the comparative analyses of dehydrated foods, fresh fruits and vegetables, and miscellaneous substances which are herein reported, it is noteworthy that, of the nine instances in which indophenol values exceeded the values for total vitamin C by more than 5 per cent, eight were with dehydrated foods. (The occurrence of indophenol values which are less than 5 per cent higher than the values for total vitamin C, is not regarded as definite evidence of interfering reducing substances, since it is possible that summation of experimental error in both methods might cause a variation of that amount.) Since the value obtained by the indophenol method was greater than that obtained by the dinitrophenylhydrazine method in only a few instances, it is probably safe to conclude that appreciable quantities of other reducing substances, comparable in strength to ascorbic acid, existed in only a few of the extracts analyzed. However, since there are appreciable quantities of dehydroascorbic acid in the extracts of many plant tissues, a true measure of antiscorbutic potency is not obtained by using a method which determines only the reduced form. The value obtained by the indophenol method may be considered with a good deal of confidence to represent a minimum value, providing, of course, it does not exceed that obtained by the Roe-Kuether method for total vitamin C.

Estimation of the exact amount of true vitamin C represented by the values obtained through analysis of jams, jellies, marmalades, apple butter, etc., is rather difficult since interference may occur in both methods. The interference in the dinitrophenylhydrazine method is a result of the fact that these products usually do not contain enough vitamin C to allow the use of high dilutions in their analysis. Ordinarily, it is possible to so dilute the substance being analyzed that the concentration of carbohydrate in the extract is far below the concentration at which interference becomes appreciable. The interference in the indophenol method is a result of the fact that substances resembling vitamin C in reducing power are formed when carbohydrates are subjected to prolonged heating. An experiment in which the effect of boiling carbohydrates in slightly acid, approximately neutral, and slightly alkaline solutions studied by means of the comparative analysis technique, indicates that, as a rule, boiling carbohydrates produces less interference in the indophenol method than in the dinitrophenylhydrazine method, except in solutions which are boiled for a period of 90 minutes or longer at a pH above 8.

In substances other than preserves, the agreement between the data obtained by the widely different methods may be regarded as evidence for the specificity of each, and suggests possibilities of obtaining more reliable and precise values for true ascorbic acid than can be secured by bioassay techniques.



## THE ATTITUDES OF RECENT AMERICAN EDUCATORS TOWARD SOCIAL CHANGE

by GEORGE WILSON HODGKINS \*

During the early 1930's there was a marked outburst of discussion by American educators of social changes, actual and expected and desired, and their bearings upon education. The years of most active discussion were from 1932 to 1935. Earlier years supply a background for the movement as a whole and for the views of particular persons in it, and later years supplement the years of greatest discussion, filling in gaps in the range of views which had been presented, and applying views to new developments in the world's affairs. Very recently World War II has precipitated new discussion along lines of current concern, and a study of attitudes of American educators toward social change in the period centering on the early 1930's should have value in the guiding of policy for the future as well as in presenting a view of an interesting period in American educational thought.

The study has been based chiefly on printed materials, of which there is a large quantity to choose from in this field. Persons engaged in the professional education of teachers have been especially active. Specialists in the social sciences have also been active, though not so generally along lines in which relations to the schools are prominent. Teachers in other lines and school administrators have played a part, although not so extensively as the two groups previously named. In addition to the individual writings of educators, the proceedings of educational conventions and the activities of committees supply much material. Dependence on the expressions of prominent spokesmen takes advantage of the most fully worked out and most widely known views, but conclusions need to be interpreted in the light of the possibility that there is a somewhat different distribution of views among the rank and file from that which appears from public discussions and published materials. The systematic exploring of the general prevalence of views among school workers is left to other types of investigation, such as polls by questionnaire or interview.

The chronological scope of the study extends for about a half-century when the background and supplementary treatments are included. The 1890's were a period marked by a number of reports of professional committees, such as the National Education Association's Committee of Seven, Ten and the American Historical Association's Committee of Seven, and by the rise of the Herbartian movement. Interest in social aspects of education was prominent in some of the discussions at that time, but not with such controversial attention to current affairs as was noted

\* A.B. 1915, A.M. 1916, The George Washington University; Ph.D. conferred May 30, 1945.



later. Educators' attitudes were largely conservative, although in the first decade or two of the new century there was some sharing of the reform trend in politics. Curriculum changes were made with a view to giving pupils a more realistic understanding of the life and institutions around them, and especially taking care of changed conditions affecting the secondary school. Meanwhile there had been the rise of the study of sociology in relation to education, emphasis on the "socializing" of the child, and the beginnings of two movements—the scientific movement and that which came to have the special designation of "Progressive"—which have had a stress upon the individual but have connections with the social trend of educational thought also. After some interrupting and shifting of trends by the First World War, there were successes in some lines for advancing education to remedy defects which had been shown, some difficulties in public relations because of certain "isms" in the world, and a large amount of fact-finding activities in education as in other fields.

With this background, the depression which began in 1929 was evidently the largest single factor in precipitating active discussion in educational circles not only of the pressing problems of schools in the emergency but also of the deeper problems of society which affect education and which education would help in some ways to solve. A general view of this development can be had from the discussions at the principal educational conventions, especially the winter meetings in late February or early March held by the school administrators, the Progressives, and other groups. In these there appeared various efforts to diagnose the troubles, revise philosophies and policies in the light of new developments, and work out remedial measures. From among the discussions certain lines of thinking and certain groups of persons can be singled out for special attention. By 1935 the controversial airing of differences had died down to some extent, though also some new controversies came to the fore on both wings of the educational front. The next few years showed a general tendency to seek accommodation of views and to work out plans for a longer pull of action than had been uppermost in the emergency period of the early depression and of the first years of the New Deal. The work of the later 1930's in fact-finding, policy-forming, and united action to support and develop American democracy shaded gradually into the new war period through the intermediate defense period. These latest years have been considered as supplementary in relation to the present study, the full attention which they also need being left to separate investigations which may be centered upon them.

In the grouping of educators for the purpose of studying their attitudes toward social change, it has been found convenient to use a division which is recognized in other aspects of education—between those

known for some time past as the Progressives, and those to whom there has more recently been attached the designation of Essentialists. Each of these groups has some possibilities of sub-grouping, whose discussion helps to reveal the characteristics of similarity and divergence.

When the gradually cumulating effects of the depression were bringing out social controversy, the Progressives had already been engaged in an argument over other issues within their ranks. Progressives were urged to take a more positive stand in the planning and guidance of education according to their principles, and to get away from the status of a protest movement and a too "child-centered" orientation. During the depression period those who were criticizing their fellow Progressives along these lines tended also to ask for a greater concern for social conditions and greater activity by educators toward modifications of society which would give more equitable distribution and more dependable continuation of benefits to all citizens, but they developed considerable differences among themselves on what they consider appropriate social policy for educators both in their immediate school functions and in their out-of-school activities as individuals and as a profession. Including a milder and a stronger degree of policy on these matters, there may thus be reasonably well distinguished three main divisions of the Progressives in respect to social attitudes—a socially neutral or aloof group, for which spokesmen are difficult to identify because of their negative position, though they correspond in part to the more distinctly child-centered group in the earlier controversy; a middle group, urging upon educators at least the need of a clear social orientation as a basis for helping others to move toward and act upon improved orientations of their own; and those Progressives who wish to go farther than this middle group in the measures to assist or even lead in social reconstruction.

For the middle group, or milder Reconstructionists, John Dewey, Boyd H. Bode, and William H. Kilpatrick are taken as leading spokesmen, in various separate speeches and writings, and especially in the 1933 yearbook of the National Society of College Teachers of Education, *The Educational Frontier*, in which these three and four other Progressives shared. A central theme in this book was the need of continuous "reconstruction of outlook" on social matters, and the special need of such reconstruction at the present time because of accumulated maladjustments of society and traditional thinking confused by a "compartmentalizing" of ideas. Society should, however, be planning rather than planned. Direction to social planning should be given by some positive principle but not a "fixed" one. The principle which these Progressives especially believe can give guidance without fixity is identified with the democratic ideal—with "democracy as a way of life" rather than in any more limited sense. It will have regard for personality, provide



opportunities for participation, and rely upon the intelligence and good will of socially minded individuals. While the teacher should have such a social view, he should not force it upon pupils, although there is much difficulty in going beyond a negative stand in saying just what the teacher should do to stimulate democratic reconstruction of outlook without an effort to make converts to the view which teachers are strongly urged to adopt for themselves. Such questions have been aired in a considerable debate on the subject of indoctrination, with Bode taking a leading position against indoctrination and George S. Counts and John L. Childs arguing for at least limited indoctrination. The Progressives of the middle group do not, however, favor a limited role for school activity such as in the days when the school had a distinctly "supplemental" role in the community, but join in the urging of a "community-centered" school.

Two leading Progressives who take a stronger Reconstructionist stand are George S. Counts and Harold Rugg. Their proposals along this line are couched in different terms, but question may arise as to whether they do not in effect come out at very nearly the same end. Dating especially from convention activities of 1932 and from a widely known pamphlet, *Dare the School Build a New Social Order?*, Counts has been regarded as a strong supporter of indoctrination, but it appears that the indoctrination he favors is considerably limited. He has set forth a vision of America's possibilities in the industrial age as "the supreme imposition" to be favored, and has identified his view as something between the positive (though still usually disclaimed) indoctrination of Communist Russia and the "philosophical uncertainty" which is much favored in America. Rugg agrees with Counts that "imposition" upon the child is inevitable, but, instead of wishing to take over and direct that indoctrination, he stresses the purpose of reducing indoctrination by giving individuals the knowledge and facilities for intelligent consent to what they wish to adopt from among the things offered. Rugg favors a more systematic curriculum than customary in Progressive circles, and has put into his social-studies textbooks such statements about the existing order and possible changes that he is accused of indoctrinating for radical ideas. While Rugg and Counts and other educational Progressives take a forward social position, their degree of radicalism is often distorted by their critics.

There are varied views of what educators should do as a professional group, outside of their immediate instructional work, to promote social reconstruction. Bode and Kilpatrick prefer to hold rather aloof from such activity; Dewey has been personally active in political and economic movements. Rugg seeks action through adult education and other leadership of adult groups and rejects the class-conscious proposals of others in favor of what is essentially a pressure-group tech-



nique. The question of affiliation with organized labor, whether for flexible cooperation on common interests, or for a more positive working-class movement, also finds varied answers in Progressive as in other circles. The question of class dynamics, including Marxist theories, in social change, has been discussed only to a limited extent in educational circles in America, the chief source available being a group of articles by various persons in the Reconstructionist professional magazine, *The Social Frontier*, in 1935-36. Efforts have been made by Counts, Rugg, and others to get the Progressive Education Association to take a united stand in projects of social action in and out of school, but the organization has preferred to remain open in this respect to all views, officially adopting only such middle-of-the-road philosophy statements as that of 1941 or policies of community cooperation such as it is now stressing under its new name of the American Education Fellowship.

The name of Essentialist has been applied in this study to substantially all of those considered who do not belong to the Progressive group, although questions might be raised about this. The name has not been given any fixed orthodoxy since it was given public attention by a sponsoring committee in 1938, and Essentialists may differ in their ways of determining what the essentials are. On either side of a middle ground there are those who place special stress upon philosophy or upon science. It is difficult to maintain the distinction which some classifiers have attempted between the followers of science and the followers of tradition among the more conservative or Essentialist educators whose social views are considered in this study. Those who are taken up include William C. Bagley, Michael Demiashkevich, Charles H. Judd, David Snedden, Edward L. Thorndike, Thomas H. Briggs, William F. Russell, Henry C. Morrison, Franklin Bobbitt, Charles E. Merriam, and Ross L. Finney. Their varied views are difficult to summarize. Some, such as Bagley, strongly oppose certain more mechanistic or deterministic aspects of science; others, like Thorndike and Judd, are especially identified with science. Progressivism and also tendencies to multiplicity of curricula are opposed rather generally, but some, such as Snedden, stress specificity of educational planning for particular needs. They vary in their recognition of the extent of social change now going on, but on the whole deprecate great emphasis on it, preferring to stress the stabilizing features of our culture which persist in spite of changes. They tend to emphasize the broad historical perspective on change, and the need of avoiding fluctuations to wide extremes so that society may go along more smoothly in the middle of the road, as persistently stressed by Russell. They do not neglect, however, the forward-moving phase of the "moving equilibrium" which society should be, and may even, like Merriam, point out the especially good oppor-

tunity to correct cultural lags when society seems to be rather on the move. Some, as Morrison and Bobbitt, think of the improvement of society especially as the result of having better individuals; while Briggs has been a strong spokesman for regarding society's improvement as the direct objective of education rather than the wishes of individuals. As generally with such points of controversy, however, there is considerable common ground in the positions actually taken. There is also difference in the extent to which the total population can be expected to take active part in changing society for the better, Finney having been characteristically insistent on the relatively unpopular view of the most capable persons as "telic" leaders of society with the larger mass in a distinctly passive relationship to change.

The relation between philosophical backgrounds and educators' attitudes toward social change needs to be considered, although it is found that there is not apt to be in many cases any marked parallelism between the usual schools of philosophy and the varied schools of educational and social thought. Herman H. Horne has particularly emphasized the possibilities of persons of divergent philosophies getting together on practical concerns. There has not been much interest in the rivalry of Idealism and Realism for the allegiance of Progressives to Pragmatism. There has, however, been a considerable rise since the middle 1930's in the interest in the philosophy of education. A transcendental philosophy, placing dependence on some higher truth of religious or metaphysical sanction as a guide to action on social change as on other matters may or may not make a considerable difference in social and educational outlook. Some of the same issues which arise in educational circles may be found in the religious field, as between Fundamentalist trends and more liberal tendencies, including the Social Gospel. Because of the secularization of the public schools, and other circumstances, discussions of religious aspects of educational philosophy have been rather apart from the general field of educational thought. Another type of transcendental philosophy which has been influential in higher education and was injected into the main currents of educational discussion in 1936 by Robert M. Hutchins, with the help of Mortimer J. Adler and others, may be identified with the modern counterpart of medieval Humanism, for which Norman Foerster and Louis J. A. Mercier are also taken as spokesmen in this study. This view stresses the need of keeping the individual under the control of his own higher self, which can be cultivated and strengthened by means commonly identified with the concept of "liberal education." This educational program stresses the abiding things, dependent upon human nature, rather than the changing facts of the world, and deprecates emphasis on the



getting of particular knowledge and of vocational skills until the basic education has been completed on the upper secondary or college level.

While these numerous divergent views have held sway in their respective groups, there have also been efforts to reach agreement on much that affects education, including particularly, as in line with the present study, the social objectives of education. In the midst of the controversial early 1930's there appeared (in 1933) the report on *Recent Social Trends in the United States*, which has largely withstood criticism as a fair and reliable survey of the realities of society as it is now and is coming to be. Under the auspices of the National Education Association, the Committee on Social-Economic Goals formulated a new statement of educational objectives in society (appearing briefly in 1933 and more fully in 1937) which combined the varied views of contributors. Through the early 1930's there was considerable discussion of character education, including, as one necessary aspect, the particular qualities of character needed for the individual in present-day society. There was encouraging agreement on many points, including most strikingly the agreement that social cooperation is an urgent need instead of the more egoistic tendencies which American life has heretofore largely stressed. A much more controversial reception was met in 1934 by the effort of the Commission on the Social Studies, sponsored by the American Historical Association, to set out the foundations of social education needed today. A number of points were raised against that commission's *Conclusions and Recommendations*, but of chief concern here is its emphasis on "the frame of reference" instead of proceeding to build a curriculum and other plans in the way other similar bodies had done. It emphasized the currently changing character of society, and gave to the present trend the name of "collectivism" without a sufficiently positive description of what might be had under that name to satisfy critics to whom the word meant something different from the "democratic collectivism" which supporters of the commission explained it had in mind. There was also question of what the commission proposed to do about the frame of reference whose importance was stressed as if, so critics thought, it was to be imposed upon teachers and pupils.

Since that time there have been a number of efforts to reach more agreement on the social policy of education and they have been more largely successful, as in the series of reports of the Educational Policies Commission, formulations of democracy such as that of the Teachers College faculty (1940), and investigations of particular social problems of concern to education. There seems to be much prospect of further agreement on social policy for education if it is recognized that education plays varied roles in society—sometimes carrying out fairly definite



mandates as an agent of society, sometimes being accorded considerable autonomy where the nature of the case and the competence of the educational worker justifies, and sometimes keeping within a relatively neutral field of activity—and if the best techniques are used for agreement, or for cooperative action where full agreement is not possible or not necessary.

## THE INTERNATIONAL TIN RESTRICTION SCHEME (WITH SPECIAL EMPHASIS ON BRITISH MALAYA)

by JOE ADAMS ROBINSON \*

Tin may be characterized as a silvery white non-tarnishing metal. It is rarer and much more expensive than most of the base metals. Its malleability, fusibility, resistance to corrosion, and its readiness to alloy with other metals make it practically indispensable to modern industry.

The largest use of tin is in its pure form. More than 50 per cent is used as a coating for other metals such as iron and steel, in the production of tin foil, and in the production of collapsible tubes. The second most important use is in alloys such as solder, babbitt, and bronze. By far the most important single use of tin in the United States is in tin plate. Its use in solder ranks second.

Southeastern Asia normally supplies approximately 70 per cent of the world's output of tin ore, South America 17 per cent, and Africa 11 per cent. British Malaya and the Netherlands East Indies are the chief sources of supply in Asia, normally accounting for 36 per cent and 20 per cent, respectively, of world production. Bolivia dominates South American production by supplying 95 per cent of that continent's output and 16 per cent of world production.

The demand for tin is relatively inelastic. The supply of tin, so far as short period adjustments to prices are concerned is also relatively inelastic, though the long-run supply is elastic.

In the past thirty years the tin industry has witnessed periods of extreme prosperity and extreme depression. There was a slump in the tin industry following the First World War. With the recovery in the early 1920's and the ensuing prosperity, the consumption of tin experienced a meteoric rise. Prices, stimulated somewhat by the fear of a "tin famine", rose to extremely high levels, and the tin industry experienced the greatest expansion in its history, though production frequently found itself lagging behind consumption. From 1922 to 1929 world production increased 42 per cent. Approximately one-half of this increase came from the Federated Malay States where many new companies were formed for the mining of tin. Malaya, boasting the greatest expansion in these new enterprises, was followed by Nigeria and Thailand. Prices reached their peak in March 1924, and in April there came a break in prices which marked the beginning of a steady decline. By 1928 it was beginning to become apparent that the expansion in the tin industry had over-reached itself. In the latter part of 1928 stocks began to accumulate. The accumulation of stocks and declining prices were intensified by the depression which began in 1929.

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Since tin mining is a major industry in most of the tin producing countries, the depression in the industry was of the utmost importance from the standpoint of labor and state revenue. On the eve of the formation of the International Tin Restriction Scheme the low tin prices, unemployment, and declining revenues were becoming increasingly embarrassing to the countries concerned.

In July 1929, the Tin Producers' Association was formed, by companies controlling in the aggregate approximately 50 per cent of world production, for the purpose of stabilizing prices. In December 1929, the Tin Producers' Association sponsored a voluntary plan to curtail production in order to reduce stocks and raise prices. This plan was in effect during most of 1930, but availed nothing since the Tin Producers' Association lacked the necessary power to enforce the restriction plan. Since the governments of the major tin producing countries had a keen interest in these developments, a conference was held in London in November 1930, at which an agreement concerning the International Tin Restriction Scheme was entered into by the Federated Malay States, the Netherlands East Indies, Bolivia, and Nigeria.

There have been three International Tin Agreements, the first covering the period from March 1931 through 1933, the second from 1934 through 1936, and the third from 1937 through 1941. A fourth agreement was proposed in 1941 but, due to the outbreak of war in the Pacific, it was not ratified. The purpose of the scheme was "to regulate the production in, and export from, producing territories, with the object of adjusting production to consumption, preventing rapid and severe oscillations of price, and maintaining reasonable stocks."

To accomplish this purpose the member countries (British Malaya, the Netherlands East Indies, Bolivia, and Nigeria) agreed that each signatory country was to be allotted a standard tonnage and a percentage quota based on its proportionate share of the world production figure for 1929. With minor readjustments, this type of agreement prevailed through the scheme.

The scheme was administered by the International Tin Committee which was made up of representatives of the member countries. The governments of the signatory countries were charged with the responsibility of enforcing the International Tin Restriction Agreements within their own countries. It was soon found that the restriction scheme alone could not cope with the depressed market conditions, and it became necessary to supplement its efforts with buffer stock schemes. Also the International Tin Research Scheme was sponsored to assist in the preservation of existing markets for tin and to discover and develop new uses.

Upon the institution of restriction, drastic reductions in production were made immediately through the medium of cuts in export quotas



of the restriction countries. No immediate effects on the market were evident though subsequent cuts did aid in checking the price slump. The International Tin Pool was formed in August 1931, to relieve the depressing effect such large stocks were having on prices. Curtailment of production was most severe from July 1932 through 1933 when quotas were only 33.3 per cent of the agreed standard tonnage. This severe restriction policy supported by the tin pool began to achieve the desired results during the latter half of 1932 even before consumption began to revive. Prices began a steady rise, and with the exception of a few adverse fluctuations of not too serious proportions continued at profitable levels for the producers through most of 1937, when both prices and quotas reached a peak, the latter being 110 per cent of standard for the last three quarters of the year. The recession brought a sharp decline in prices in late 1937 and 1938. Quotas were quickly cut back almost to mid-depression levels where they remained until June 1939. This served to check prices before they had fallen to a low figure and although price recovery started in June 1938, and rose rapidly for the remainder of the year, quotas were kept very low until June 1939, when they were increased to 120 per cent of standard tonnage. Thereafter production continued virtually unrestrained, a quota of 130 per cent being in effect throughout 1941. A Buffer Stock Scheme was instituted in July 1934, and another in July 1938 but they were of far less importance to the second and third restricting schemes than the International Tin Pool had been to the first scheme. Also, they were extremely unpopular.

The purpose of the International Tin Restriction Scheme was to stabilize prices by securing an equilibrium between production and consumption, in other words, to lend flexibility to a hitherto rather inflexible supply. In attempting to achieve this purpose the International Tin Committee followed a very cautious policy with regard to relaxation of quotas. Quotas were kept at low levels during periods of slack demand and low prices, and at the very minimum commensurate with the demand for tin during periods of higher prices; at the first indication of a decline in prices quotas were cut. Thus, the production of approximately 90 per cent of the world's tin was regulated arbitrarily by the International Tin Committee and supply was, in fact, made more flexible.

The tin producers of all the restricting countries faced many problems of readjustment, the fundamental problem being, of course, that of staying within the allotted quota. All the restricting countries suffered severe reductions in production. By 1933 British Malaya and the Netherlands East Indies had reduced production by 63 per cent of the 1930 figure. Bolivia and Nigeria had reduced their production by 61 per cent and 56 per cent, respectively, during this period. Malaya,

in particular, had a difficult time and soon found that its domestic quota had to be far below the international quota in order to keep within the latter. To mitigate the hardships of restriction on small producers certain grouping arrangements were allowed and provision was made for the transfer or sale of quotas from one unit to another.

With regard to labor, there was a close relationship between the number of laborers employed in the mining industry and the controlled output of the International Tin Restriction Scheme. The level of employment in the tin industry became dependent to a large degree on the decisions of the International Tin Committee. It was found further that during the period of restriction, in contrast to the previous decade, employment reacted very slowly to price rises and was very sensitive to price declines. This leads to another closely related observation that under restriction an increasingly smaller labor force has been required by the tin mining industry per given amount of output. This is suggestive of what might be expected under similar schemes.

In Bolivia tin accounts for 70 to 80 per cent of total export trade. Thus Bolivia's total export figures were directly affected by the quota decisions of the Tin Committee, rising and falling as quotas were relaxed and tightened. Imports for consumption also moved closely with exports, being affected indirectly through the purchasing power derived from the latter. Thus during the restriction period the foreign trade of Bolivia, and that country's general prosperity, depended, to a large extent, on the decisions of the International Tin Committee. The foreign trade of the other restricting countries was not as closely interlocked with the tin industry as was Bolivia's, but the operation of the restriction scheme and the decisions of the Tin Committee were still of great importance to their trade. As a whole, the effects of the scheme on the foreign trade of the restricting countries were very satisfactory to those countries.

The revenue derived from tin also varied directly with the quotas allowed and with prices and, thus, was affected directly by the decisions of the Tin Committee. The operation of the scheme was very successful from the standpoint of state revenue.

Generally, the restriction scheme was accepted favorably by the producers in the restricting countries. The Netherlands East Indies showed some reluctance to join the voluntary scheme but, having joined, became a staunch advocate of compulsory restriction. There was considerable dissatisfaction with restriction in British Malaya, but when it came to a vote, the overwhelming majority of producers were for it.

While there was considerable criticism of the restriction scheme in the United States, no real offensive was organized against it. Tin occupied too small a part in the cost of the finished product, and some of the users of the metal felt that the scheme did make for more stable prices



and therefore were willing to pay a little higher price for this stability.

The restriction scheme had little effect on the volume of imports of tin into the United States. The value of these imports was affected to some extent but these effects were not as far reaching as might have been expected, and the cost to consumers was not forced up immoderately when compared to costs in the decade 1921-30. However, it may well be argued that the prices paid by American consumers during both periods were far above those necessary to insure a "fair return".

There is little hope of the United States becoming independent of the International Tin Restriction Scheme by the exploitation of domestic deposits. Surveys conducted in the United States over past years conclude that, for all practical purposes, this country is devoid of tin deposits. The small tin deposits found are not worth commercial attention. Conversely, there is little possibility of the United States establishing its own smelting industry as a means of combating restriction.

What, according to economic theory, would be expected to occur under a restriction scheme of this type and to what extent were these expectations fulfilled? With the institution of restriction one would expect some increased demand in the short run due to the stocking-up activities of consumers in anticipation of higher prices. No change would be expected in the long-run demand curve unless the restriction scheme stimulated a research program resulting in technological developments which brought about a change in the amount of tin demanded. The immediate effect of the expectation of a higher price is to stimulate producers to increase their output. Thus, it would be expected that the amounts coming on the market would increase in anticipation of restriction. But when restriction becomes effective it is to be expected that the short-run supply will become more inelastic. If the controlling authority is able to maintain effective restriction and keep prices high enough to cover the cost of production of the otherwise submarginal firms these firms will be retained in the industry instead of being forced out. The marginal firms will become supra-marginal and the supra-marginal firms will enjoy an enhancement of profits provided production is not cut so low that it offsets the increase in prices. The inelasticity of supply mentioned above would be of a strictly short-run nature. If restriction affected the long-run supply curve at all, it probably would make it more elastic. A temporary rise in prices would be expected but, eventually, it would be expected that the scheme would collapse.

To what extent were these theoretical expectations fulfilled? Since restriction was instituted during the depression of the early 1930's there were no effects on short-run demand from stocking-up activities. As a matter of fact, since tin occupies such a small part of the cost of the finished product, there never has been any building up of stocks to a large extent. Also there was no indication that the long-run demand



curve might be affected by the restriction scheme. In accordance with expectations there was some increase in tin supply in anticipation of restriction but when restriction became effective the short-run supply of the producers under restriction (80 to 90 per cent of world production) became more inelastic, though more flexible. It became more flexible in that the producers, by adjusting quotas, could increase or decrease the supply of tin at will when prices changed. The supply of tin became more inelastic because production quotas were set for certain periods (usually quarterly) beyond which no more tin could be produced regardless of the price. Below these set limits the elasticity of supply remained unaffected by the restriction scheme, the producers continuing to adjust their production to prices as they would if there had been no restriction, but beyond the limits set by the quotas the short-run supply of the restricting producers became perfectly inelastic. The expectations with regard to marginal and submarginal firms also seem to have been fulfilled. Under the International Tin Restriction Scheme there was very little amputation of excess capacity. World War II interrupted the operation of the restriction scheme so that there was no opportunity to observe what the effect would have been on the long-run supply curve. However, there were indications to support the belief that any possible effects would have been to make the long-run supply curve more elastic. The production of the non-restricting countries showed some expansion, even though it was not alarming to the restrictionists; at times there was considerable agitation within the scheme to increase production and in some quarters to abandon the scheme; and in many instances restriction stimulated greater internal economies and intensified mechanization, which would tend to lower the cost of production in the long run. The restriction scheme had no immediate effects on prices. It was instituted in 1931 during the depression so any short-run effects which otherwise might have occurred were nullified by the large accumulated stocks of tin and small demand though it did help check the decline in prices. However, a survey of the whole decade of restriction leads to the conclusion that restriction did achieve a large measure of success in raising and maintaining prices; as a matter of fact, in stabilizing prices. A comparison of the period 1921-30 with that of 1931-40 indicates that prices were much more stable in the latter period.

Because of the war's interruption of the operation of the scheme it is difficult to evaluate the scheme's chances of survival. At the close of the third agreement it was well entrenched and there was little to lead its opponents to hope for its early collapse. However, there were certain indications that the theoretical expectation that it would collapse might be fulfilled in the long-run. As has been said there were always a number of producers who opposed restriction and others who fre-

quently registered dissatisfaction with the low quotas set by the International Tin Committee. The increased production of the non-restricting countries has been noted as well as the high cost of quota concessions necessary to keep such countries as Thailand, the Belgian Congo, and French Indo-China in the scheme. These instances contain possibilities which might in the long-run have resulted in the downfall of the International Tin Restriction Scheme.

## SOME MIGRATORY LABOR PROBLEMS IN CALIFORNIA'S SPECIALIZED AGRICULTURE

by LAURENCE ILSLEY HEWES, JR. \*

In the last fifteen years considerable attention has been directed to the problems of agricultural labor throughout the country, particularly in California. There the utilization of migratory agricultural labor was accompanied by labor strife and destitution among the workers. These conditions were intensified during the thirties by a dramatic (Dust Bowl) migration. This situation resulted in the creation by the federal government of a program designed to meet the special problems of this labor group.

Agricultural labor problems are found in several parts of the United States. However, the large scale specialty crop enterprises in California employ many thousand workers. This employment extends over the greater portion of the year and a larger number of people depend on this type of employment to a greater extent in California than elsewhere.

Agricultural labor problems in California afford a useful field for research because of the importance of the large volume of California specialty crop production and the need for improvement in the workers' conditions. California harvests an important fraction of the nation's specialty crops and the labor force is correspondingly important. However, there is practically no organization in the labor market so that workers frequently face unemployment while employers have encountered drastic labor shortages.

Adjustments which provide a smoother allocation of jobs would give more continuous earnings and provide a more stable labor force. However, such plans should bring about the desired objectives without disturbing the flow of agricultural products to the market.

Until 1939 most of the literature on problems of agricultural employment consisted of short descriptions of particular phases or of special features. Since 1939 several longer studies have been made, but these again have emphasized particular aspects of the over-all situation. This literature fortunately has been supplemented by several extensive congressional hearings and investigations. These have developed a valuable mass of source material. In general, emphasis has been placed on the misery of the workers, the "industrial" conditions of employment, and the involvement of specialty crop enterprises in shipping and marketing functions.

Two kinds of remedies for the unsatisfactory conditions have been proposed: (1) the extension of existing social legislation benefits to

\* B.S. 1924, Dartmouth College; Ph.D. conferred October 17, 1945.



agricultural workers now excluded from them; (2) limitations on the size of specialty crop enterprises in order to discourage large scale enterprises. The first of these turns on the so-called "industrial" aspects of employment in California specialty crop agriculture, which assumes that the norms of this type of employment are truly comparable with those of industry. This assumption, however, has not been based on a rigorous analysis of the norms of specialty crop agriculture, but is an outgrowth of the descriptive literature of the subject. The latter proposal for acreage limitation overlooks the possible drastic consequences to specialty crop production which might result from a change in the size of the enterprise.

The present study views the force which emanates from the market as an important influence in the relations between workers and employers in the specialty crop enterprises of California. Changes in employment relations and the methods of labor application have occurred as the market for these products has expanded. In short periods, rapidly changing market conditions may explain the discontinuity of earnings and the speculative character of production may have a greater effect on employee welfare than the technical requirements of production.

#### THE MARKET PRODUCTION COMPLEX (CHAPTER II)

The relations between marketing, market organization, and production requirements in the intensive fruit, nut, and vegetable enterprises of California are discussed in this chapter. Aspects of scale, specialization, cost, and price in specialty crop production are described in connection with the structure of marketing and production agencies which are dominated in many instances by a grower shipper. The activities of grower shippers impose requirements of mobility and flexibility on the labor force.

Many California agricultural enterprises are distinguished by their large size and a high degree of specialization. According to the 1940 Census, 60 per cent of all large scale specialty crop enterprises are located in California and 66 per cent of all cash wages paid for California farm labor was paid by specialty crop enterprises. Over half of this wage bill was paid by large scale enterprises.

A number of specialty crops are subject to highly variable prices and to costs of which wages are relatively an important fraction. Thus price changes may quickly put returns below costs, leaving the grower no alternative but to reduce wages or the size of his force. Hence the possibility of price changes requires the employer to maintain a tight control over wages which need to be as low and as flexible as possible.

The growth of specialty crop agriculture in California has been paralleled by the growth of a structure of marketing organizations.

Marketing and agricultural management functions tend to overlap because of the need for maintaining unified control over the diverse functions which are required to coordinate production, packing, shipping, transportation, advertising, and marketing. This has been accomplished partly through trade associations, but particularly through the grower shipper who performs many or all of these operations. This point is illustrated by a description of the relation of agricultural methods and packing plant operations in the vegetable industry.

The integration of cultural practices with packing and shipping operations in a setting dominated by a rapidly changing price places the worker in a very insecure position. The pattern of relations which is imposed on workers and employers alike makes the wage earner a pawn in a game of speculative strategy, implying a need for social controls analogous to the color line sanctions encountered by the southern agricultural Negro.

#### THE CHARACTER OF THE CALIFORNIA AGRICULTURAL LABOR FORCE (CHAPTER III)

The distinctive characteristics of the California agricultural market and its related mode of production gave rise to a type of farm labor and farm labor relations greatly at variance with those found in the traditional agriculture. The agricultural laborers of California are contrasted in social relations and economic position to the "hired man" of the traditional family farm. This is particularly true of the truck, fruit, and nut farm enterprises which are most closely identified with California agriculture.

These enterprises are unadaptable to the "hired man" type of farm labor. Prevalence of large-scale farm enterprise and the technical requirements growing out of specialization of labor operations and intensity of labor application enforces an impersonal and a strictly cash-wage relationship which is unlike those found in general farming areas.

The problems of the agricultural migrant of California should be viewed in the context of his relations to specialty crop production. This may require an adjustment in public thought which should be made in order to avoid errors in policy.

#### ORIGIN AND DEVELOPMENT OF THE AGRICULTURAL LABOR SUPPLY IN CALIFORNIA (CHAPTER IV)

Examination of the origin and the development of agricultural labor supply in California shows that the rise of the prevailing agricultural enterprise was paralleled by the development of a labor force corre-

sponding to the needs of the system. The type of labor most amenable, from the growers' standpoint, to the requirements of the production system, was docile and easily dominated. These qualities were valued by employers almost as much as those of skill, initiative, and stamina. This type of labor, however, was not automatically available.

With the exception of the Chinese coolies, whose availability for work in California agriculture was largely fortuitous, the search for desirable labor has been a recurring problem for growers and agricultural interests generally for half a century.

First one source and then another have contributed elements to California's farm labor supply. Customs and habits of the component groups over a period of time crystallized into a pattern of social-economic relationship into which any new recruits to the system had to fit. White elements represented by immigrants, hoboes, and child and women workers, have always been present in the labor force. From the employer point of view they have never been completely acceptable as workers.

From 1870 to World War I much of the agricultural labor was Asiatic. During the World War and during the decade of the twenties Mexicans, who by grower standards had the requisite qualities, appeared in large numbers in California and constituted its principal farm labor force until after 1929. With the depression of the early thirties the Mexican component of the California farm labor supply largely disappeared. Its place was taken by "depression migrants", native white Americans from the West-South-Central states. The prevailing social, labor, and immigration policies of today will probably tend to inhibit the existence of the type of worker to which the California specialty crop enterprises have grown accustomed. Perhaps this trend will facilitate a reorganization of the California agricultural labor market along lines which will stabilize working conditions and aid employers in obtaining reliable workers.

#### CHANGES IN THE CALIFORNIA AGRICULTURAL LABOR FORCE FROM 1930-1940, AND THE CHARACTER OF THE LABOR MARKET (CHAPTER V)

During the 1930's the composition of the California agricultural labor force changed. Large numbers of native white Americans sought employment in agricultural occupations which had been previously filled by Mexicans. The adjustment of numbers of white families to the conditions of California specialty crop agriculture was not an easy one. Furthermore they found only the least desirable employments, since other groups held semi-monopolies of more desirable jobs. However,



by 1936 the newcomers had become an important element in the agricultural labor force. Their adjustment to the new conditions gave rise to a whole group of problems involving workers, employers, and the community.

Part of these difficulties were attributable to the inadequate placement and labor relations machinery typical of California agriculture. Agricultural employment problems have traditionally held small interest for the general public of California which has not been encouraged to participate in their solution. Consequently agricultural labor relations have been largely informal and dominated by employer interests. A few efforts to establish wage boards have been unsuccessful and short lived.

The labor contractor system was another feature of the labor market which the newcomers encountered. These contractors operate chiefly in the specialty crop areas and while affecting the welfare of many workers, are neither particularly responsible as individuals nor subject to adequate public supervision. They assume no fixed responsibility, have no real financial stability, and a number have only a limited English speaking ability.

A considerable number of agricultural employers depend on labor contractors and delegate some management functions to them. This crude system of placement and labor relations tended further to inhibit the earning capacity of the new workers and to complicate their eventual adjustment to specialty crop employment.

#### LIVING AND WORKING CONDITIONS CONFRONTED BY THE MIGRANTS 1930-1940 (CHAPTER VI)

This chapter deals with the wages, housing, and health conditions among the California agricultural migrants in the setting of family labor, mobility, and community relations. The family work unit meant that the entire migrant family moved from crop to crop by season, covering annually large areas of California and adjacent states. The general area covered by these trips included most of the central and coastal agricultural valleys of California, a straight-line distance of about five hundred miles. The migrant family returning to its starting point at the end of a crop year frequently had made a round trip of more than a thousand miles. While earlier components of the labor force had left agricultural areas in the off season, the new workers broke with tradition and remained in rural areas throughout the year.

This change was resented by the rural communities for social and economic reasons. Most of the newcomers were close to the relief line and their presence spelled additional demands on the tax supported institutions of the community. Moreover these people resisted the junior

citizenship status which their colored predecessors had customarily accepted.

The attitude of local public officials toward the white migrants became peremptory. In this respect they reflected the attitude of many grower employers. Some county officials declared that these people were of a lower social origin and a few were savage in their expression of contempt. The desire to avoid any tax liability for the assistance of the new group led to a patchwork and makeshift pattern of public assistance programs which at times were subject to undue grower influences.

Perhaps the conflict between the migrants and the communities was most clearly expressed during the disorders that arose in connection with attempts to organize agricultural laborers into trade unions. The bitterest sentiments were expressed against the newcomers, violence was common, and the local law enforcement officers openly sided with the growers.

The basic cause of the distress among the workers was their low earnings which were related to the conditions imposed by the character of the market for agricultural specialty crops. The schedule of wages placed many of them among the lowest earning groups in the country, and this condition was aggravated by periods of unemployment with resulting expensive trips in search of work.

Another of the causes of distress was poor housing. Much of this housing was old and in poor repair. It was originally intended to be used seasonally rather than permanently and growers were unwilling to add to their labor costs by providing improvements, particularly during a period of depression. In addition to bad housing, the sanitary conditions of the shack towns in which the workers congregated were deplorable. Thus the health, poverty, and shelter needs of the migratory agricultural workers presented serious problems of public policy.

#### THE FARM SECURITY ADMINISTRATION PROGRAM 1938-1942 (CHAPTER VII)

This chapter is concerned with the programs of financial assistance, housing, and medical care which the federal government through the Farm Security Administration instituted for the assistance of agricultural workers.

As the influx to California increased, numbers of people whose needs were beyond local resources became stranded. These emergencies became frequent after 1935, and the Farm Security Administration began issuing direct grants early in 1938 as a result of the inability of the local communities to cope with the situation. It was necessary to gear this program to the occupational needs of agricultural labor which called for a specially designed program. Special welfare standards, operating

procedures, and other unique features were required in order to give maximum assistance to this group.

The deplorable housing situation clearly called for new construction. This was too costly from the standpoint of the growers. Consequently, the Farm Security Administration erected a series of specially designed migratory labor camps. These provided a uniform minimum standard of housing over a wide area and afforded a guarantee against undue exposure, particularly in the specialty crop area.

Along with its housing program a free medical care program was also provided. The backbone of this program was a system of clinics staffed by clerks, nurses, and neighborhood physicians. Some effort was made through this program to provide elementary education in health practices. The program handled about 220,000 cases of illness in the period 1938-1942.

The initial objective of the grant-in-aid, housing, and medical care programs was to provide relief adapted to the occupational needs of the agricultural migrants. A primary shortcoming of this program was its relief aspect, which made it inevitable that the program would fail to achieve a permanent improvement in the condition of the workers, because this depended on a reorganization of the labor market, an objective beyond the scope of a relief program. Without this basic step the real causes of low earnings and unemployment would continue to operate. However, the program as operated undoubtedly did a great deal to alleviate actual suffering. Furthermore, the experience obtained in the operation of the program provides a basis for a more permanent program when conditions make that possible.

#### MEXICAN LABOR IMPORTATION PLAN—ITS RELATION TO THE MIGRATORY LABOR MARKET (CHAPTER VIII)

It became apparent in 1941 that the traditional methods of the California agricultural labor market were inadequate to meet the pressure put on the nation's manpower by defense needs. The growing competition from industrial establishments caused a rapid shift from agriculture to more attractive employments, and a shortage of agricultural workers appeared inevitable.

At the same time increased agricultural production was required to meet the needs of defense and later of the war. However, neither the crude organization of the agricultural labor market nor the traditional thinking of the agricultural interests of California afforded adequate resources for efficient utilization and placement of existing man-power. Consequently agricultural interests began to agitate for the importation of farm workers from Mexico.

In the summer of 1942 negotiations were begun with Mexico for the



importation to the United States, particularly California, of Mexican farm labor. Both governments recalled the previous unsatisfactory experience of Mexican workers in California, during World War I and subsequently, with considerable misgiving. Furthermore, the Mexican government had little sympathy with the large scale agriculture of California and was anxious to protect its nationals from the hazards of this occupation. These considerations and the anxiety of this government to maintain good relations with Mexico were embodied in the International Arrangement of August 1942, which established the basic principles governing the proposed labor importation program.

This program was placed under the supervision of the Farm Security Administration. Unfortunately this agency suffered two initial handicaps. It had never been really successful in obtaining the confidence or cooperation of growers and other agricultural employers. Furthermore, the agency had had little real experience of the type which was required to handle the labor importation program. This placed a heavy burden on the agency, particularly since the International Arrangement eliminated or sought to eliminate many of the traditional features of the California labor market. Some of its provisions called for minimum guarantees of employment to offset the traditional intermittent employment. Other provisions called for public wage hearings and collective bargaining. All these were strange and new to many growers, and in addition there was little if any existing machinery which could be depended on to carry out such provisions. Hence the new program had to begin its operations with a great deal of improvisation, and improvisations in a field with such long established traditions were not likely to be popular.

#### THE OPERATION AND MODIFICATION OF THE MEXICAN LABOR PROGRAM (CHAPTER IX)

This chapter presents a brief description of the actual operation of the Mexican Farm Labor Program of the Farm Security Administration both in Mexico and the United States. The work in Mexico consisted largely of recruiting, selecting, and transporting workers to the United States. This work was fairly simple and went forward smoothly. In California, however, real difficulties were encountered in attempting to adjust the new program to the requirements of California agricultural employment.

The growers were irked by new regulations, and workers often proved intractable. They complained about the type of employment, housing, food, and wage scales. The employer complained bitterly about the type of worker, government red tape, and the interference with their traditional prerogatives with their employees. Given time, it was pos-

sible to solve all these problems with those growers who were willing to cooperate. Even in spite of the recalcitrance of many growers it was generally admitted that the Mexican workers provided a needed resource and the demand for their services rapidly expanded.

Several of the restrictions initially imposed on employers by the government were subsequently removed, but only after a considerable backlog of grower resentment had accumulated. In general, grower and farmer organizations were opposed to the principle of a controlled immigration program. They had favored from the beginning of their agitation a program of unrestricted mass immigration from Mexico.

Eventually the dissatisfaction of certain grower groups was brought to the attention of the Congress. This dissatisfaction was expressed as a criticism of the Farm Security Administration and Congress, impressed with this criticism, removed the agency from control of the program. Another government agency inherited most of the powers previously given to the Farm Security Administration, although certain powers including labor placement and estimates of labor demand were put in the hands of the Extension Service of the several states. In the case of California, this agency promptly brought many grower and agricultural employer groups into close consultation. On the whole, however, very few basic changes in policy were made and the original labor protective principles of the International Arrangement were strengthened. Thus the principle legislative changes were in the responsibility for direction of the program and in a strengthening of the placement function.

Through the war period the program has been of benefit to California agriculture. The physical condition of the workers has been maintained at a high level and their wages have been good. Many of the original irritations have disappeared as the growers have become familiar with the program. One significant development has been the establishment of well organized growers' associations which have demonstrated a sense of responsibility as well as a capacity for controlling the activities of their members in dealings with workers and the government.

While the employer's situation has probably improved during this period, the wage earner's position remains fundamentally weak despite the imposition of wartime safeguards by the government which have temporarily bulwarked his position. These must be regarded as war measures and are not likely to be continued.

The haphazard movement in search of employment has been eliminated at least for Mexican workers. A degree of employer responsibility has been achieved with some coercion. The operation of migratory labor camps when properly related to employer needs has demonstrated that the original purpose behind their establishment was sound. All these may prove useful aids in any future program for stabilizing the California agricultural labor market.



MIGRATORY AGRICULTURAL LABOR AND SOCIAL LEGISLATION  
(CHAPTER X)

This chapter draws together the previous chapters and endeavors to outline the policies for agricultural labor which appear feasible in the light of the requirements of specialty crop agriculture in California.

The basic problems are: (1) low earnings, (2) intermittent employment, (3) a disorganized labor market, (4) one-sided bargaining as to the conditions of employment. The explanation of these unsatisfactory features is found in the character of the market for the products of specialty crop agriculture and the traditional use of colored labor over a period of five or six decades. These difficulties augmented by the depression resulted in the emergency relief program of the Farm Security Administration and the standards imposed by the Mexican government for the protection of its nationals during the war period.

These programs throw light on the possibilities of providing longer term policies for mitigating the unsatisfactory condition of the agricultural labor market in California. Such policies must provide for (1) an improvement in worker income; (2) a labor force adequately serving the growers, without (3) disrupting the large scale specialty crop enterprise; (4) a continual flow of specialty crop products.

The discussion then proceeds to a review of the provisions of the Social Security, Fair Labor Standards, and National Labor Relations Acts which, although now excluding agricultural labor, have been considered as possible sources of assistance. While each of these might alleviate somewhat the undesirable features of this form of employment, their effectiveness is dependent on a fundamental reorganization of the labor market.

Under present conditions the instability of employment and low earnings would make the Unemployment Compensation and Old Age and Survivors Insurance programs of the Social Security Act of small value to many agricultural migrants. However, with a reduction in the number of workers and an increase in the amount of employment per worker these aids might be more useful.

In their existing form, wage and hour standards as provided by the Fair Labor Standards Act are probably not adjusted to the needs of California specialty crop agriculture. Yet with modifications to meet these requirements, wage and hour standards might aid in stabilizing a reorganized labor market by causing better scheduling of labor and the use of labor saving techniques.

The almost complete lack of trade union organization among agricultural workers would tend to make the National Labor Relations Act ineffective at present. However, labor organization would reinforce stabilizing tendencies if these were placed in effect, and agricultural



workers should have the benefits of this protection in order to take advantage of such tendencies.

The principal features of a reorganized labor market would be a system of efficient employment offices coupled with a system of migratory labor camps along the lines developed by the Farm Security Administration. These employment offices, in order to be a dynamic element in reforming the labor market, would need to assemble and disseminate a great deal of information on the need for labor, wage rates, type of employment, and labor supply. In the operation of these offices and the camps it would be necessary to coordinate many official and unofficial agricultural agencies and to obtain the full cooperation of the growers. These features should be supplemented by an adequate program of unemployment compensation.

Nevertheless, in spite of reforms in the labor market many of the speculative features of specialty crop production will remain. Thus the gains made through a reorganized labor market will have come about through a decrease in the size of the labor force, better utilization of labor, and more continuous employment per worker. In the short run costs would probably be higher, and in many instances these could probably not be passed on. While this would result in a more careful use of labor it would probably not reduce production output or consumers' prices.

These proposals are not intended to solve all of the problems of agricultural labor, but are alternatives to the previous emergency programs. In the event of another serious economic depression the proposed program would encounter grave difficulties. Its success, therefore, would depend on a fairly high level of general production and employment. Even under depression conditions, however, a well organized labor market would function better than a poorly organized market.

THE MORPHOLOGY, BEHAVIOR, AND HABITS OF  
*POLYDORA LIGNI* WEBSTER

by EDITH ELIZABETH MORTENSEN \*

Polychaete worms of the genus *Polydora* live on mud bottoms where they cause profound changes by gathering and depositing huge quantities of mud, often covering and smothering other inhabitants with a thick layer of material formed of their loosely constructed mud tubes and excreta. The worms also penetrate between the mantle and the shell of oysters where so-called mud blisters are formed. Thus they sometimes change from a free living to a commensal existence and are of ecological interest. Therefore the study of the behavior and habits of these animals is of importance. This paper presents a detailed study of the anatomy of *Polydora ligni* followed by a report of the functions of various anatomical structures as revealed through direct observations on the live animal and through experimental procedures.

In tube-building the mud is gathered in a deep ciliated groove extending the length of the inner margin of each of a pair of tentacular cirri as they lash about and secrete a sticky mucus. As the worm turns on its long axis, the mucus-covered mud is passed to the basal end of the tentacles and then is dropped, forming a ring about the anterior end of the body. The mucus is sufficiently adhesive to cause the particles of mud to stick together readily and immediately. There is no systematic placing of the mud in a rotary fashion at the edge of the tube. The incomplete tube is extended in length at either end as the animal reverses itself within it.

A small amount of mucus is added to the inside of the tube as a lining. The source of this may be the unicellular glands in the hypodermis or the ventral glands.

The amount of mud which Polydorids may accumulate is very considerable. In a sample taken from Delaware Bay there was an average of 429 tubes per square inch of surface. On the basis of the weight of the dried mud in a cubic inch of this sample, it is estimated that the worms had accumulated 98 tons of dried mud per acre to the depth of one inch.

*Polydora ligni* will construct at least a partial tube of such foreign materials as finely ground glass, powdered carmine, finely ground oyster shell, corn starch, Chinese ink, or sand.

Rejection of material unsuitable for tube-building or food is accomplished by the reversal of ciliary motion along the tentacular groove. When an animal is given substances such as corn starch, Chinese ink, or sand grains, the number of reversals recorded per unit of time is greater

\* A.B. 1925, Carleton College; A.M. 1927, University of Minnesota; Ph.D. conferred October 17, 1945.

than when the same animal is given mud from its natural environment. Likewise the number of reversals occurring when mud soaked in a M/40 KCL solution is used is greater than with mud alone. A 0.01 per cent lactic acid solution added to corn starch gives more reversals than corn starch alone. Thus physical and chemical factors control the reversal of ciliary motion.

It has been demonstrated that the presence of a tube is essential for the survival of *Polydora ligni*. In addition to forming a protective housing, the tube probably provides a mechanical device which helps insure the efficiency of the respiratory mechanism.

*Polydora ligni* will occasionally hollow out very slight channels within the shell substance of the floor of a mud blister. The study of artificial blisters reveals that the process of hollowing out channels is a very slow one. Considering the time element involved, it is probable that the most effective factor in etching is the formation of carbonic acid through respiration.

From observations made of the actions of the worms living within glass tubes, it is concluded that the pygidial funnel is not a sucker, but a plunger for clearing the tube of excreta.

The conditions which stimulate the entrance of the worms into oysters and cause the free living animal to assume a commensal habit remain unknown. Apparently the worms are not attracted by the oysters and, as laboratory experiments show, may remain in close association with them without penetrating their shells. Infestation of oysters by *Polydora* may be a purely accidental phenomenon.

A study of the structure of the egg capsules in correlation with the anatomy of *Polydora ligni* leads to the conclusion that Söderström's theory with respect to the formation of the egg capsules by the nephridia of the sexual segments of the body is the best explanation of the process which can be suggested at present.



## THOMAS MIDDLETON'S *A MAD WORLD, MY MASTERS* by RALPH HOOVER LANE\*

Middleton's early comedies represent an important facet of his dramatic craftsmanship and are among the finest Jacobean examples of that kind of composition. The so-called "comedy of London life" is inseparably connected with Middleton's name and *A Mad World, My Masters* is one of the best of a group in that category. This play might typify English comedy during the earliest Stuart years, since it embodies the principal dramatic materials then popular and bears many resemblances to the work of Middleton's fellow comic writers. In *A Mad World* a union of two older literary forms, the school play and the jest book, is modernized by details of language and behavior; but these details effect no transmutation of the basic sixteenth-century ingredients and are, in a sense, deceptive. The conventionality of the matter involved needs to be stressed because Middleton's skill in injecting glimpses of contemporaneous life into it tends to obscure the traditional patterns he has followed.

### DATE OF COMPOSITION

The date of composition can with ease be narrowed to a period of, roughly, two years. Since this play was produced by the Children of Paul's, the disappearance of that company after July 30, 1606, sets an upper limit;† the earliest possible date is likewise established by the general resumption of theatrical activity soon after Easter, 1604.‡ The sole evidence for more precise dating, internal and by no means conclusive, consists of matter suspected of being allusion.

Inasmuch as the Red Bull theatre was built in Clerkenwell around 1605,§ mention of that community and several fictitious persons supposed to live there (II. 1319-1322) has direct bearing upon the problem. Jovial mention of the plague (II. 1091, 1104) is likewise of importance; it could hardly be expected until quite long after the calamitous epidemic of 1603 had subsided nor even until the serious outbreak in September 1605, seemed definitely at an end. The restraint upon playing, which was lifted on December 16, 1605, was, of course, a practical obstacle and hence early 1606 is the first probable and acceptable time for this reference.

A perhaps more impressive indication of date of composition is the satire on the scandalous Jacobean knightings. On July 23, 1605, James I distributed more than twice as many of these cheapened honors as during

\* A.B. 1929, Capital University; A.M. 1932, Ohio State University; Ph.D. conferred May 29, 1946.

† John Tucker Murray. *English Dramatic Companies* (London: 1910). I. 253.

‡ F. P. Wilson. *The Plague in Shakespeare's London* (Oxford: 1927). pp. 110-111.

§ Joseph Quincy Adams. *Shakespearean Playhouses* (Boston: 1917). pp. 294 ff.

the two previous years of his reign.\* This alarming excess appears to be the immediate stimulus for the satire on knightings in *A Mad World*. Belittling names of two knights (II. 400-401) and careful statement of the status of Sir Bounteous who had been knighted by Elizabeth (II. 78-81, 688), point up the criticism. The very name of Sir Bounteous Progresse is a detail in the satire; it recalls the month-long progress southward in 1603 when James, en route to his coronation, created as many knights as Elizabeth had created during the last ten years of her reign. † This common element of satire has more than usual force in *A Mad World* and argues for a date of composition after the wanton liberality of the King had become full recognized and, of course, at a time when there was prospect of playing. Early 1606 is such a time.

Possible additional support for this hypothesis is the series of previously unnoticed allusions which suggest the Gunpowder Plot. Lord Owe-much, who maintains players, holds a freedom from the Company of Mercers, and for five years has travelled abroad, including an indefinite period in Ireland, is apparently a local hit which would remain topical for only a short time. This personage may be a caricature of William Parker, fourth Baron Monteagle (1575-1622), who revealed the plot and was rewarded by pensions—which allowances made him, at least financially, "free of the Mercers" (I. 415). He maintained players at various times. ‡ He had travelled to Spain in 1602 to invite invasion and had served with Essex in Ireland. References to the Mitre tavern (I. 2092), where certain of the plotters had met § and to *A Book of Christian Exercise*, by the Jesuit Parsons (II. 276-280), increase the possibility that the plot against Parliament is in the background. Monteagle, a conforming recusant, was related through his wife to the large, overwhelmingly Catholic Throckmorton family, which included most of the leading traitors. Moreover, the date of Sir Bounteous' feast in the final act, "the leauenth of this month, Tuesday next" (II. 1999-2000) parallels the date of the beginning of the conspiracy, "about December 11, 1604." This date, which fell on Tuesday, is named in Guy Fawkes' declaration of guilt, signed at the Tower on November 17, 1605. ¶ This sensational disclosure would have made the date immediately recognizable and at once suitable for a feast. The Gunpowder Plot is submitted, therefore, as possibly an unconscious source of the "Tuesday," Parsons, and Mitre allusions and a conscious source of Lord Owe-much. These allusions strengthen the probability that *A Mad World* was composed early in 1606.

\* John Stow. *The Annales of England* (London: 1605). pp. 1415, 1417.

† Godfrey Davies. *The Early Stuarts 1603-1660* (Oxford: 1937). p. 1, n. 3.

‡ Murray. *English Dramatic Companies*, II, 57. Monteagle, incidentally, was one of the members of the Essex faction who engaged the famous performance of *Richard II* in 1600.

§ Chambers. *The Elizabethan Stage* (Oxford 1923) II, 205.

¶ Leslie Hotson. *A William Shakespeare* (London: 1937). p. 190, cites B. M. MS ADD 6198, 662.

‡ P. Dom. James I, 218, No. 101.



## SOURCES

*A Mad World* cannot be traced to a single source but is rather a composite from many sources. Many analogues may be found in contemporaneous and earlier plays and pamphlets. Most obvious are resemblances to Shakespeare, who is echoed in allusions and lines from nine separate works; and a substantial contribution comes from the Falstaff matter in the two parts of *Henry the Fourth* and *The Merry Wives of Windsor*. A marked relationship to the former is evident in the opening scene of *A Mad World*, some sixty lines of which imitate 1 *Henry IV*, III, iii. Many other small similarities appear in later scattered lines.

Elements of an Italian school play which foreshadow parts of *A Mad World* have been overlooked by earlier students of this comedy. Middleton seems to have extracted two threads of plot and two or three rudimentary characterizations from *The Bugbears*, c. 1565, a loose translation of Grazzini's *La Spiritata*, 1561, conditionally ascribed to John Jeffere. This play yielded the father who is beguiled of 3,000 pounds by his own son, and the rich old man vanquished in love by the poor youth. Middleton, however, replaces the supposed ghosts with other disguises and contents himself with a succubus in place of the more numerous *caccubioni*, or sprites; he effects a triple robbery, combines the old men, and ultimately turns the joke upon the wayward young man, now grandson of the deceived. One of Grazzini's characters, Cantalupo (III, i, 20-25), prefigures the antic and amorous Sir Bounteous so well that only the humor of over-generosity is required for the final conception of the latter. In both plays feeble admirers offer to finance medication for real or supposed pregnancy of mistresses (*The Bugbears*, III, iii, 29-32; *A Mad World*, II, 1125, 1163-1164); and the self-styled "astronomer" of *The Bugbears* (III, iii, 42-149) is echoed in the jargon of Penitent as a physician in *A Mad World* (II, 1129-1148). Both plays use the device of the pillaged treasure chest and in both cases the wealth thus secured is finally used to establish the chief culprit in marriage to the object of the old man's courtship. In neither play does the victimized old man receive sympathy and in both of them may be found the same high-handedness among the pranksters.

Absurd liberality, the only trait needed to convert Cantalupo of *The Bugbears* into Sir Bounteous, is the distinguishing characteristic of Sir Oliver Owlets in *Histriomastix*, a Paul's play of 1599. Sir Bounteous also may be noted for a beautiful kitchen (C2<sup>v</sup>), which Sir Bounteous also may boast (in some ten places in the text); he provides musical entertainment by liveried servants, as does Sir Bounteous (II, 555, 566, 571).

Much language and topical allusion in *Westward Ho!*, 1604, are definitely related to those of *A Mad World*. Most striking of the similarities is to be found in Dekker's part of the former, where Parenthesis,



disguised as Mrs. Justiniano, courts the old earl, who later believes his visitor a succubus (F3<sup>v</sup>, F4). Besides an obvious likeness to Middleton's succubus (ll. 1536-1537), who is, however, genuine, this passage links with other scattered lines (ll. 1099-1100, 2100-2102). Besides numerous other comedies of the time which share the matter and phraseology of *A Mad World*, similarity to the jest books—though no actual borrowings can be proved—is evident. Rogue material is the heart of the main plot, which comprises a chain of jests designed to penalize a foolish grandfather for asserted parsimony. With the aid of cronies, Folly-wit plans successively three disguise tricks which enable him to rob the old man. The sub-plot centers around Frank Gullman, mistress of Sir Bounteous, the grandfather. A by-product of her ruse to capitalize upon her position is the opportunity afforded Penitent Brothel to cuckold Harebraine. The two plots join when Folly-wit falls in love with the courtesan and a rapid denouement identifies the prankster to his grandfather and the courtesan to her newly-wedded husband, Folly-wit. This drastic simplification of the action of the play shows that disguises, tricks, and thefts monopolize the attention and emphasizes the vestigial medievalism of Folly-wit's machinations, which create most of the "mad world" of the title. The genesis of each of the tricks is separate and they reach their objective by cumulative and quantitative effect. These episodes, strong on the tenuous thread of a bad-boy personality, and the secondary plot defy chronology, as befits the jest motif; emphasis is placed, instead, upon alternation of plots or contrasts in a continuous staging. With the exception of Sir Bounteous, who escapes as a permanent vivid creation, all the characters are too much circumscribed by the rogue pattern for real development. The conventionalized succubus, which has no organic relationship to the sub-plot in which it appears, seems to be a concession to the Jacobean fad for witchcraft. The predominance of prose in the play reflects the then current trend of English comedy.

Both content and form of *A Mad World*, then, are highly conventionalized and are substantially of the same quality as much of the earlier drama. Most of the matter retains the flavor of the school play and the jest book, uniting to an extent, the moods of aristocratic and popular entertainment. Middleton's handling of his material in this comedy is, with due acknowledgment to his lively originality, one marked by his customary expediency. His incidental allusion to contemporaneous attitudes and customs, often mistaken for a conscious attempt at genre painting, is only added evidence that he maintained a firm place in the vanguard of theatrical fashion. He was uncommonly adaptable to the demands of the changing mode through his career and there is, hence, little reason to suppose that *A Mad World* sprang from his imagination unprompted by considerations of public demand.

## THE FIRST QUARTO

On October 4, 1608, *A Mad World, My Masters* was entered on the Stationers' Register by Walter Burre and Eleazar Edgar\* and the first edition appeared late the same year, from the press of Henry Ballard. The common two-skeleton method of printing quartos was employed at the beginning of this job, when a trained printer, possibly Ballard himself, and an inferior assistant began the work, the two alternating somewhat irregularly. An accident apparently delayed the printing of Do, with the result that the outer and inner forme skeletons were exchanged before the printing of gathering E. Signature F<sup>r</sup> marks a shift in fonts used for the running-title, the employment of a single skeleton for the remainder of the quarto, and the reversal of order in the printing of formes, the inner now preceding the outer. The men who completed the printing with a newly set single skeleton followed the corrupt copy with unimaginative slavishness and often further complicated the text through carelessness. A second apparent accident necessitated still other new running-titles for Ho, which were used again in Io; being lower case, they suggest an acute shortage of type. The method of printing the last four gatherings, which required one less man for operation, indicates a shortage of labor or equipment. Since a wholly new skeleton was prepared, a pause of some length must have occurred, during which time all the type that had been set up evidently was distributed. The entire piece of work argues that the author was not present for proof-reading; that Ballard turned to other publications once *A Mad World* was again in progress; and that the long interruption in printing ended in a makeshift to dispose of the project.

The delay in the printing and the marked difference in quality between the resulting two portions of the text suggest that two manuscripts served as printer's copy. It is noteworthy that variant readings of consequence appear only in the final four gatherings and not throughout the quarto. Surviving copies show at least a dozen variant readings in the last two acts of the play, whereas the first three acts are remarkably free of variants, although not free of printer's errors. The compositors of the corrupt portion may have followed a more troublesome copy than that used by their predecessors, copy in the handwriting of a different person. The variant readings prove correction after a presumable customary proof-reading and represent literal misreading of penmanship. Besides the several misreadings which cannot be compared with correct forms in the better portion of the text, all copies show *Servus* for *Servus* (11. 2043, 2046) and *weomen* for *women* (11. 1561, 1610), both of which words are correct in the first five gatherings in all copies. Likewise, *Gunwater*, consistently spelled before the hiatus in printing and used as

\* Arber, III, 391.



late as E4<sup>r</sup> (1. 1405), appears on F3<sup>r</sup> as Gumwater (1. 1613) and is so spelled from that point onward. Neither form in each of these cases seems to be continuous misreading but, rather, evidence of what the compositors saw. Several new abbreviations in the latter part of the text also hint that liberties taken by the compositors were prompted by inconsistencies in the manuscript from which they worked.

Only in the text of the last two acts, moreover, appear the vestiges of earlier names given Harebraine and Penitent Brothel. The final name of the former is lightly interspersed through these pages, whereas *Short-rod* and *Hargrave* in various forms are frequent. This evidence of double emendation appears to be a characteristic only of the copy from which the last third of the play was set.

The manuscript in the author's own handwriting can not have been, at best, uniformly legible, besides being further disfigured by such emendations as the multiple name changes (and possibly other emendation not deducible from the printed text). There is, furthermore, a strong possibility of playhouse notations on the manuscript, shown in the language of several stage directions, five of which (11. 555-556, 571, 898, 1071-1073, 1536-1537) deserve particular notice. The entire manuscript may have been in such poor condition that on short notice Ballard required a better working copy than the one provided him. Two printers could easily have overtaken one scribe at Sig. F. A long delay by the scribe could have prompted Ballard first to distribute the type of the running-titles and turn to other projects, and eventually to resume printing from the playwright's or Paul's execrable manuscript. Since the better portion of the first quarto is in accordance with many of Middleton's general practices in spelling and abbreviation, its superiority may well be creditable to the fastidiousness of a scribe; Middleton himself would then be chargeable for much of the error which afflicts the final pages.

A by-product of the present study is the discovery of a previously unknown copy of the first quarto of *A Mad World, My Masters*. Part of the Library of Congress collection, it is catalogued as a second edition, owing to the fact that it is bound with a 1640 title-page. This defective copy, which, of course, lacks the original first leaf, also lacks Sigs. H2, H3, and I, three important leaves which might have proved it a duplicate of the Dyce copy, which it otherwise resembles.

This summary emphasizes the three large problems relating to *A Mad World*, which earlier editors of the play have not fully exploited. Many other questions have been examined in the introduction and notes and all the usual duties required by a critical facsimile edition have been performed. The Folger Shakespeare Library copy of the 1608 quarto, which is the basis of this study, has been collated with the Harvard, Boston Public Library, and Library of Congress copies of the same edition and with the Yale copy of the second edition.





SUMMARIES OF DISSERTATIONS  
SUBMITTED FOR  
THE DEGREE OF DOCTOR OF EDUCATION

1944-46





# THE DEVELOPMENT OF CERTAIN CONCEPTS OF THE FUNCTION OF CHEMISTRY IN THE SECONDARY SCHOOL

## A STUDY OF A COURSE IN CHEMISTRY FOR PROSPECTIVE NURSES IN THE MARTINSBURG HIGH SCHOOL

by DAVID EDWARD MUDGE \*

This dissertation on the development of certain concepts of the function of chemistry in the secondary school is a study of a course in chemistry for nurses. The dissertation is composed of three parts: namely, (1) a historical section on chemistry in American schools, (2) a descriptive section on chemistry courses in the high school of today, and (3) a study of a new type of chemistry course—high school chemistry for nurses.

### BACKGROUNDS OF CHEMISTRY IN AMERICAN SCHOOLS

The historical section does not propose to be an exhaustive treatment of the subject but is intended to furnish a background for the reader. It shows the gradual development of chemistry as a subject in the schools in America. This development is traced through the early applications of chemistry to industry, medicine, and agriculture. Chemistry played an important part in the life of the early settlers because of its applications to industry. Chemistry teaching began when the colonists turned their attention toward medicine. By 1862, the value of chemistry to agriculture was recognized. Henceforth, its place in education was firmly established. The early academies offered chemistry as part of their curriculum. Chemistry was offered in the better high schools as soon as they came into being. Even in the early colleges, academies, and high schools an attempt was made to apply chemistry to life situations.

### CHEMISTRY COURSES IN SECONDARY SCHOOLS

The descriptive section on the chemistry course in the high school was written to give the reader information to be used in interpreting the study of a new type of chemistry course, chemistry for nurses.

There are two schools of thought concerning the type of general chemistry course that should be offered in the secondary school. One school maintains that there should be no specialized science in the high school curriculum while the other believes that specialized chemistry does have a place in secondary education.

Specialized chemistry courses designed to serve particular purposes have been in existence for a long time. As early as 1891 the Audubon Sugar School of Louisiana was established to meet the needs of the stu-

\* B.S. in Ed. 1937, A.M. in Ed. 1938, West Virginia University; Ed.D. conferred February 22, 1944.

dents of that state. Since that time several secondary school courses in chemistry have been designed to train technologists. Trade schools frequently offer chemistry courses of a specialized nature and many vocational schools offer courses in industrial chemistry.

The traditional general chemistry course in the secondary school is designed either to prepare students for further study of chemistry in college or to provide general information of cultural value. Its basis is usually inorganic chemistry.

#### CHEMISTRY REQUIREMENTS FOR NURSES

As science has advanced so has the nursing profession. Chemistry is receiving more attention in nursing education as time goes on and is occupying a larger place in the nurses curriculum. In courses of study for nurses chemistry is emphasized repeatedly as one of the fundamental subjects needed for a thorough understanding of the nursing profession.

The course in chemistry in the nursing school differs in several respects from the general chemistry course in high schools. The general chemistry course includes problems involving (1) percentage composition, (2) weights of substances and volumes of gases concerned in chemical reactions, and (3) the gas laws (Boyle's and Charles'). These problems are omitted in the course in chemistry in the nursing school. The metallic elements, the metallurgy of iron, the manufacture of steel, and the composition of alloys are treated at some length in the general chemistry course but are omitted from chemistry courses in nursing schools. The course in chemistry in the nursing school gives more attention to the study of solutions and ionization than does the general chemistry course. Finally, the course in the nursing school includes a great deal of biochemistry not found in the general chemistry course.

#### A CHEMISTRY COURSE FOR PROSPECTIVE NURSES IN THE HIGH SCHOOL

To meet the needs of high school students planning to enter a training school for nurses a new chemistry course was constructed with the assistance and constructive criticism of two superintendents of nursing schools and a teacher of chemistry. The new course combined essential features of the usual high school chemistry course with materials customarily included in courses taught in nursing schools. It was taught for three years in Martinsburg High School during which enrollments in chemistry, an elective subject, more than doubled. From this experience, data was gathered for the evaluation described later.

#### GENERAL CHEMISTRY VERSUS CHEMISTRY FOR PROSPECTIVE NURSES IN THE HIGH SCHOOL

When the general chemistry course and the chemistry course for prospective nurses were compared it was found that (1) forty-three



topics were the same, (2) four topics included in the general course were omitted from the course for prospective nurses, (3) seven topics in the course for prospective nurses were altered somewhat, and (4) six new topics were added to the course for prospective nurses. Chemical problems and the industrial application of chemistry are omitted from the course for prospective nurses because they are not essential to the work of the nurse. Iatrochemistry is stressed more in the course for prospective nurses because it is basic in the medical profession. Solutions receive more attention in chemistry for prospective nurses because of the many direct applications to the everyday work of the nurse. Metals are not essential as far as the nurse is concerned and therefore receive less attention. Carbon compounds, foods, and nutrition make up a very important part of the work of the nurse and therefore receive more attention. The six additional topics in the chemistry course for prospective nurses are used because they are essential to the nurse in understanding the chemical processes in the body.

A comparison of the experiments in the two courses showed that (1) twenty laboratory experiments were the same, (2) nine general chemistry laboratory experiments were omitted from the course for prospective nurses, (3) five laboratory experiments of those in the general course were altered somewhat in the course for prospective nurses, and (4) eleven new laboratory experiments were added to the course for prospective nurses. Certain experiments involving quantitative work, industrial preparations of compounds and studies of metals are omitted in the course for prospective nurses because of their relative lack of application to the needs of the nurse. Some experiments that are not applicable to individual laboratory work are given as lecture demonstrations. Eleven experiments have been added to the course for prospective nurses because they involve chemical principles that are essential to an understanding of body processes.

In concluding this section it can be said that the traditional general chemistry course presents topics and experiments that are concerned with the inorganic approach to chemistry. This situation is typical of most general chemistry courses in the high school of today. The new specialized course in chemistry for prospective nurses has been developed so as to include many topics and experiments involving biochemistry.

#### A COMPARISON OF ACHIEVEMENTS IN THE TWO CHEMISTRY COURSES

The third part of this investigation is a study of the achievements of students in the new chemistry course for prospective nurses. The data collected are treated statistically but no attempt is made to base all findings and conclusions on the statistical results alone because of certain statistical limitations. First, there are not sufficient cases to make the study reliable. Second, there are no valid tests to be found in chemistry



for nurses. Third, one of the instruments used, the Test of Understanding, was difficult to grade because it was subjective in nature. Fourth, the two groups did not have the same chemistry course. However, despite these limitations, the results do indicate the apparent possibilities of such a specialized course for prospective nurses.

To compare the achievements of students in the course for prospective nurses with those studying the traditional chemistry course a series of tests were needed. A chemistry test was needed to see how the groups would rank in general chemical principles. For this a New York State Regents Examination was used. Since a satisfactory test designed to measure achievement in chemistry needed by nurses could not be found, one was constructed. A committee composed of instructors from a nursing school went through many old state board examinations for nurses and selected the questions on chemistry most frequently asked. To make sure that the questions would not be too provincial, state board examinations from all over the United States were used rather than those just from West Virginia. When the work was completed there were four tests which have been called Tests X, Y, Z, containing factual questions and a test of understanding involving some thought questions. These four examinations were administered to the two groups and the results treated statistically.

The Otis Quick-Scoring Mental Ability Tests, Gamma A.M. were used to determine the intelligence quotients of the two groups. Since the mean intelligence quotient of the students studying the course for prospective nurses was lower than that of the other group pairs were selected to remove this variable. The achievement of these equated groups were compared for tests X, Y, and Z and the test of general principles.

When the achievements of the two groups were compared without equating intelligence quotients the following results were obtained.

On the test of general principles the regular chemistry group was superior (57 chances in 100). This is not high, however, and cannot be taken as being very significant. On Test X the group in chemistry for prospective nurses was superior (51 chances in 100). But here again the score cannot be considered very significant. The regular chemistry group was superior on Test Y (64 chances in 100). This is somewhat higher but still cannot be considered very significant. On Test Z both groups had the same arithmetical mean. However, the group in chemistry for prospective nurses was far superior on the test of understanding (99 chances in 100).

When the I.Q.'s of the two groups were paired and the results of twenty-four cases treated statistically it was found that on the combined tests X, Y, and Z, the group in chemistry for prospective nurses was superior (99 chances in 100) while the general chemistry group was slightly superior on the test of general principles (53 chances in 100).

From the data it seems that the achievement of students in chemistry for prospective nurses is superior in chemistry needed for nursing. This is even true when intelligence quotients are not equated. It is important to note that it does seem from the facts presented that it may be possible to take a group of students with a lower I.Q. than another group and with special treatment of the subject for the lower I.Q. group raise the achievements of the group to rank favorably with that of the higher I.Q. group.

#### REMARKS AND OBSERVATIONS

Some information of a subjective nature was obtained from some former students in the course in chemistry for prospective nurses by the use of an informal letter and by personal interview. Every student felt that the chemistry course for prospective nurses in the high school was most helpful in preparation for the nursing course. Many were especially appreciative of the parts dealing with nutrients and food stuffs. A majority of the students considered the laboratory practice and technique important. All of the students indicated that formulas and equations were still difficult to master and suggested that they be stressed more in chemistry for prospective nurses. There was some difference of opinion as to how much of the chemistry applied directly to their nursing work. Many students felt that the course in chemistry for prospective nurses helped them to understand better their chemistry in the nursing school. All of the students concluded that nothing essential had been omitted from the high school chemistry course for prospective nurses.

In conclusion it can be said that from classroom observation it was apparent that the students in chemistry for prospective nurses showed greater interest than those in the regular chemistry course. This was probably due to the fact that the students thought they wanted to be nurses and for them the course had a definite purpose. Many of the prospective nurses acknowledged that they studied harder and worked more because they felt it would be of value to them later. Moreover, it does seem that the students did far better in chemistry for prospective nurses than they would have done if required to take the regular chemistry course. Even if these students should decide to go to college the tests indicate that they are not likely to be greatly handicapped in doing college work.

## INDUCTION TRAINING OF COUNTY EXTENSION AGENTS

by BARNARD JOY \*

The Cooperative Agricultural Extension Service of the United States Department of Agriculture and the Land Grant Colleges of the States employ 9,000 professional trained workers. Almost 7,000 are agricultural agents, home demonstration agents, and 4-H Club agents whose headquarters are in 3,000 counties. In normal periods the number of new agents employed annually is 700 to 800. During the war this number has doubled. The purpose of this study is to assist the Agricultural Extension Service to bring its newly appointed agents to maximum job efficiency in a minimum period of time.

### CHARACTERISTICS OF AN EFFECTIVE INDUCTION TRAINING PROGRAM

Induction training may be defined as the process by which new employees acquire the knowledge, skills, attitudes, and judgment that they need to achieve the standard of job performance expected of experienced employees. The provision of induction training is the responsibility of the employer.

An effective induction training program has the following characteristics:

1. Its importance is recognized by top administrators who participate in the induction training program.
2. Adequate time is given the new employee to participate in training activities and he is not expected to assume full responsibility on his job until his induction training is completed.
3. It is a carefully planned activity that is systematically carried out.
4. It is planned cooperatively by top administrators, training specialists, line supervisors, and representative employees.
5. It is based on an analysis of training needs.
6. Its objectives are stated in terms specific enough to furnish a basis for the selection of program content and for evaluation of results.
7. The content, based on the analysis of need and objectives to be reached, is organized into practical teaching units.
8. Appropriate training methods, considering program content, the working situation, and the availability of qualified instructors, are used.
9. The basic principles of psychology and education are observed in planning and carrying out the program.
10. Evaluation of the program is planned and carried out.

11. The division of responsibility among training specialists, line supervisors, and other staff members is clearly defined and makes maximum utilization of the training ability of all employees of the organization.

\* B.S. 1930, Oregon State College; A.M. 1934, University of Maryland; Ed.D. conferred May 31, 1944.



12. The persons who instruct the new employees are skilled both in the topics they are teaching and in the technique of teaching adults.

#### SOURCES OF DATA

To determine the induction training needs of county extension agents, the requirements of the job were compared with the qualifications of recently appointed agents. Previous studies were reviewed and selected data from the annual statistical reports of county extension agents were summarized to determine the requirements of the job. Questionnaires submitted to 677 agents, appointed in 1937, for the study of preparation and training of extension workers, were retabulated to obtain data concerning training and qualifications. Additional data were obtained from the personnel records of 671 agents appointed in 1941.

Questionnaires returned by 46 of the 48 state extension directors and by 176 recently appointed agents were sources of information in regard to the content of induction training programs and the methods of training used. These sources were supplemented by special visits to seven states, by a study of the annual narrative reports of extension supervisors, and by group thinking conferences with extension supervisors.

#### THE JOB OF A COUNTY EXTENSION AGENT

The county extension agent is a teacher, who stimulates rural boys and girls, farmers, and homemakers to adopt improved practices. He is a planner who studies the needs of rural people and guides these people to an understanding of the relationships between their problems and the forces of contemporary society. He is an organizer who encourages people to attack their problems cooperatively. He is a technician who is ready to demonstrate or explain any of the techniques or processes involved in successful farming, homemaking, or community living. He is a supervisor of volunteer leaders who assist in developing and carrying on the program. He is an administrator responsible to federal, state, and county governments. He is a public servant who serves by virtue of his ability to respond to the requests of rural people.

A successful agent knows his subject matter, agriculture, or home economics. He knows how to utilize result demonstrations, farm and home visits, news stories, circular letters, bulletins, exhibits, method demonstrations, meetings, and other techniques in teaching adults and youths. He knows how to organize people for group action. He knows how to select, train, and maintain the enthusiasm of volunteer leaders. He knows how to guide rural people in the analysis of their problems and in the development of solutions for them. He knows how to manage his office so that it is the center to which the people of the county come for agricultural and home economics information.

However, the successful agent must have more than knowledge and

the ability to use it. He needs vision \* to keep ahead of those he leads. He needs initiative and ability to plan, since no one tells him what to do. He needs courage and perseverance; the paths he follows are rough and uncharted. He needs faith and integrity, since his leadership depends upon the fine personal relationship he maintains with the rural people in his county.

#### QUALIFICATIONS OF NEW AGENTS

Almost all new agents have completed a four-year college course in agriculture or home economics. Sixty per cent have some professional experience, usually teaching, between college graduation and employment as an extension agent. Forty per cent are employed within the year following the completion of their college education. Ninety per cent are under 35 years of age when employed.

Typically, the courses they have taken in college can be classified as one-fourth in basic sciences, one-sixth in social sciences, one-tenth in education, one-seventh in miscellaneous fields, and more than one-third in technical agriculture or home economics. The almost universal requirement of a college degree in agriculture or home economics insures adequate technical knowledge.

About five-sixths of the new agents have had some courses in the field of education. Only one-fifth have taken a course in the field of extension education.

Almost all extension agents are farm reared. More than half of the new agents have been associated with the extension programs in their home counties as 4-H Club members before going to college.

#### TRAINING NEEDS OF NEW AGENTS

A comparison of the responsibilities of an extension agent and the qualifications of new workers indicates that new agents need to

1. Understand the background, objectives, policies, and organization of the Extension Service.
2. Learn to apply the broad principles of education and psychology to situations in which extension teaching is done and to develop skill in the use of extension teaching techniques.
3. Analyze the problems of rural people of a county and learn the processes by which the people and the agent cooperating can arrive at solutions for the problems and develop a county extension program of work.
4. Learn how to organize rural people for group action and how to stimulate the leadership available in each group.
5. Understand the programs of the other agencies and organizations

\* Qualities listed are adapted from a study of qualifications of a county agent, reported in "Some Aspects of a Study of Leadership," by H. C. Rimsower, Proceedings 39th Annual Convention of Association of Land Grant Colleges, 1925, pp. 216-243.

serving the country so that the activities of the Extension Service will be coordinated with other efforts to solve the problems of rural people.

6. Maintain a business-like office including records that are helpful in evaluating the success of extension work in the county.

All six of the induction training needs involve (1) supplementing the training the new agent had before he was employed; (2) orienting the new agent in a complex situation; and (3) helping the new agent put into practice what he has learned.

#### CONTENT OF THE INDUCTION TRAINING PROGRAM

In general, recently appointed extension agents do not feel that the induction training they have received is adequate in any of the major fields in which training is needed. Many topics on which they need training are omitted.

The amount of training new agents receive in the background, organization, and objectives of extension work more nearly approaches the amount needed than does the training in other fields.

Considerably more training is needed than is now provided; in the duties, responsibilities, and privileges of county extension agents; in the methods used in extension teaching; in office management and relationship with other agencies and organizations.

Present induction training programs are weakest in the development of extension programs and plans of work and in the evaluation of the results of extension work. In these two fields new agents receive only a small amount of training and feel that they need a great deal.

The detailed outline of topics that should be included in an induction training program for county extension agents presented in the thesis cannot be summarized.

#### METHODS OF TRAINING NEW AGENTS

The principal provisions for training new extension agents are

1. A period spent in the state office before reporting to the county.
2. Special visits from supervisors devoted to orienting the new agent.
3. Overlapping period of employment when the new agent is on the job before his predecessor leaves.
4. Apprenticeship with or help from experienced agents in the county.
5. Schools for new agents.
6. Reading extension literature.

Each of these provisions has strong points and weaknesses. The better induction training programs utilize at least four of the six methods.

New agents indicated that apprenticeship with or help from experienced agents is the kind of training that was most valuable. The next most valuable training was provided by supervisory visits. However, the one or two visits received during the first three months in a county were



considered to be insufficient. Almost all agents had read extension literature but too often it was not written for the benefit of new agents and covered only a few of the topics on which help was needed. One-third of the new agents had spent a period in the state office before reporting to the county. A frequent reaction was that too much was crowded into this period which was usually three days. One-third had attended a school for new agents and more than half of those attending reported that the training received was of "great value".

Most induction training programs provided for extension agents did not include provision for the evaluation of the trainee's progress or of the program as a whole.

#### ADEQUACY OF PRESENT INDUCTION TRAINING PROGRAMS

There is great variation in the adequacy of the induction training received by extension agents. Some have been hired and sent to a county to learn the job by the expensive, embarrassing, and inefficient trial-and-error method. Others have been appointed as "agents-in-training" and for periods up to six months have followed a systematically outlined series of activities that provided supervised experience in all aspects of extension work. A case study of this type of program carried out in Missouri is reported in the thesis.

The report of a home demonstration agent appointed in May 1941 on the induction training she received and her evaluation of it has been selected as typical.

"My training consisted of two days in the State office, during which time the home project organization, 4-H Club organization, file system, and publicity were discussed. Since I had no experience to which I could link these discussions, there were some parts that did not mean much . . .

"I spent one week in my county with the 'old' agent.

"I had two supervisory visits.

"Any reading that I have done has been of a general nature. The training I received was not enough to be of much value. I found that it was necessary to learn from actual experience the things that I must do. After having done these once, some constructive criticism would have been helpful".\*

#### RECOMMENDATIONS

The first step in the improvement of induction training programs is support and positive administrative action on the part of the State Extension Director. A staff member (or committee of staff members) should be appointed as training specialist. New workers should be appointed

\* From answers on questionnaire from respondent number 49.

as "agents-in-training" and should not be expected to "produce" on the job during the first three or four months after appointment.

The training specialist or committee should enlist the cooperation of supervisors, specialist, and experienced agents in analyzing the training needs of new agents, formulation of objectives, selection of content, development of a systematic training plan to be followed, and in the preparation of an agent's handbook.

The systematic plan to be followed might include six major headings

1. *Three day period at state office.*—Under supervision of district agent the new agent would meet the director and other members of the state staff. Brief instruction would be given on a few topics, such as organization of the Extension Service, the job of an extension agent, and personnel policies.

2. *Sixty to ninety day period in a "Training County".*—The new agent would serve as an apprentice in a county especially selected because it has a good extension program and because the experienced agents are good trainers. The activities of the new agent would be definitely planned and calendarized when the district supervisor brings him to the county. Three assignments typical of the sixty suggested in the thesis are
  - a) Attend weekly conferences of county extension agents. Prepare agenda for one conference. Study the responsibilities of each agent and their working relationships.

- b) Observe several method demonstrations given by the experienced agents and by volunteer leaders. Prepare and give a method demonstration.
- c) Become familiar with the office library of books, magazines, and bulletins. Discuss its use with the experienced agents.

3. *Training period in county in which new agent is given a permanent assignment.*—The new agent, with the help of the district supervisor or experienced agents in the county, would meet the people who are leaders in extension work and in other agencies and organizations. Basic facts in regard to the county would be assembled. The history and status of the work in the county would be reviewed.

4. *Supervisory visits.*—The supervisor would accompany the new agent to the "training county" to assist in the development of the training plan and would visit twice more during this period. He would accompany the new agent to the county where he is assigned and visit monthly thereafter for at least two months. During these later visits special attention would be given to problems relating to the development of extension programs and plans of work.

5. *One-week school for new agents.*—This school would be held semi-annually for agents who have been employed at least three months but not longer than nine months. It would include presentations and

discussions on topics such as "How Can Principles of Adult Education be Applied in Extension Teaching?" and "The Administrative Implications of Being a Cooperative Employee of Federal, State, and Local Governments". There would be laboratory periods on news stories, method demonstrations, and a field trip to observe result demonstrations. Considerable time would be set aside for individual conferences with specialists and supervisors.

6. *Reading assignments.*—Throughout the induction training period reading assignments would be coordinated with field and office activities. The principal reference would be an agent's handbook prepared in the state especially for the new agents. Other assignments would be in books, bulletins, and mimeographed publications, but they should be carefully selected. Reading would supplement other activities and should not take more than 15 to 20 per cent of the new agent's time during the training period.

The various phases of the induction training program should be evaluated by observing the field activities of the new agent; by checking the written materials he prepares, such as news stories and circular letters; and by discussion of problems with him. To evaluate the program as a whole the reactions of agents who have completed their induction training should be obtained. "Group thinking" conferences of supervisors and agents in "training counties" should analyze the strong and weak points in the program. When job efficiency ratings of agents are made, the period required for new agents to achieve a degree of efficiency equal to the average of experienced agents should be checked. The objective of induction training is to bring the new agent to maximum job efficiency in the shortest possible time.

A definite program of improving supervisors and experienced agents as trainers should be followed. This can include group-discussion conferences, reading particularly in the field of adult education and employee training, and encouragement of graduate study including courses in extension education.



# AN INVESTIGATION OF THE ACHIEVEMENT AND GROWTH IN BASIC ENGLISH SKILLS DURING THE FIRST HALF OF THE SENIOR HIGH SCHOOL

by FLORENCE M. LUMSDEN •

## PURPOSE AND PROCEDURE

The purpose of the investigation was, in its simplest terms, to obtain objective data concerning the achievement and growth toward mastery in the areas of basic English skills among senior high school students in a favored urban community. Data concerning achievement were obtained by making studies of performance on the Iowa Basic English Skills Test in the 10A, 10B, and 11A grades; data on growth were obtained by comparing the results of the first and last testings and by item analyses of the tests.

To study possible relationships between performance and intelligence, the test results of the 260 students, of the Woodrow Wilson High School, Washington, D. C., who were used in this study, were tabulated within eight decile I.Q. groups, ranging from 150 down to 71; the median and model group was the one with I.Q.'s from 120-111; the median I.Q. was 115.1. This technique of tabulation was further elaborated in the item analyses, where studies were made of the individuals within each group to discover whether the errors made were those of chance or of possible patterns within the individual's personality of learning.

## FINDINGS

The first survey of achievement, in the 10A grade, revealed that the students were below the national norm in punctuation, capitalization, and spelling, and approximately at the national norm in usage. The 11A survey showed a mean score for the group still below the 10A national norm in spelling. At the beginning the situation was neither very good nor very bad. At the end of the study the situation had improved, but, since the intelligence level of the school is considerably above average, the growth in achievement seems to be less than one might expect.

Because the best results were achieved in usage and the poorest in the areas which are more dependent upon written expression, more time for written expression in all semesters in all groups is indicated. The I.Q. group 100-91 made the greatest growth during the period of the study; this is the best group of the so-called "extensive" students, for whom a course of study with a great deal of drill on skills has already been proposed. Their growth as shown on the total test and on the various subtests indorses the plea for more written work for intensive classes as well as for extensive ones. The gains of the groups still lower than the best of the extensive students indicate that the time put upon drill

A.B. A.M., 1920, Cornell University: Ed D. conferred May 11, 1948.

is beneficial. Because the median group of the school, which is well above average in intelligence, showed only average achievement on the first testing, and because students of average intelligence showed less than average achievement, it is apparent that these students were not well prepared in these skills when they entered the tenth grade; more time for drill and composition in intensive classes would appear to be needed to help overcome these deficiencies.

Tendencies towards negative correlations between intelligence and achievement in these basic skills were shown by the co-efficients of correlation between these two factors in a study of total scores. At the beginning of the study, in the 10A grade, the correlation was—.69; at the end, the co-efficient of correlation was—.83. These tendencies may be explained in part by the fact that in the areas in which the greatest negative correlations were shown (in punctuation and in spelling) the initial achievement was lowest and therefore the gains were made farther down the scale than on the other tests. Gains near the top are recognized as more difficult to achieve than gains lower down. The gains of certain groups in some areas, however—for example, the achievement of perfection in punctuation by the highest group in the final testing—suggest that the goals for the better students might profitably be re-examined.

Specific weaknesses were identified by item analyses of each of the four subtests. As might be expected, some items were more difficult than others, but it is noteworthy that the items which ranked high in percentage of error at the beginning ranked high also at the end. Closer scrutiny of the tabulation of items showed that not only were the same items missed initially and finally but also that they were missed, in a high percentage of cases, by the same pupils. Thus patterns were found that suggest individual fixations in error.\* Furthermore, the repeating offenders were widely scattered among all intelligence levels. Forgetting was also widely distributed among all I.Q. groups. It seems probable that mastery of these skills will demand the attention of teachers of all groups of students.†

In general, recapitulation of the findings presents these conditions: (1) that the students in this school enter high school below standard norm in all areas except usage, (2) that by the end of their first half of senior high school they have made growth in all areas, (3) that this growth, compared with the average yearly increment on national norms below the tenth grade, is below expectation in punctuation, capitalization, and spelling, and above expectation in usage, (4) that growth and achievement are irregular and not predictable on the basis of intelligence

\* The psychological implications of this are discussed at some length in the text of the dissertation.

† Methods to be used in establishing mastery are suggested in the full text of the thesis.



as measured by the I.Q., (5) that isolated instances of optimum achievement may occur, (6) that forgetting is distributed among all levels of intelligence, and (7) that patterns of error appear which identify difficult subject-matter and weaknesses of individual pupils.

To provide objective data for an attack on the weaknesses in the separate areas of punctuation, capitalization, usage, and spelling, the deficiencies identified by item analyses were studied in detail.

Punctuation was found to be the area most needing attention in the classroom both because of the extent of difficulty of the material and because of the number of pupils involved in the field of error, for this area was the one in which there was the highest percentage of persistent errors on the number of items missed and in which there was the highest percentage of pupils involved in the errors at the top of the list. In short, punctuation appeared to be the most difficult field and to present difficulties to the greatest number of students.

In punctuation there was some evidence of relationship between intelligence and skill as shown by positive correlations between low percentage of error and high I.Q. level in the analysis of persistent errors. Direct quotations restrictive clauses, and possessive forms of nouns and pronouns caused the most difficulty. The use of unnecessary punctuation was found to be as great a problem as the failure to use needed marks, since over-punctuation accounted for half of the persistent errors. Also, all the most frequently forgotten items involved over-punctuation. These several factors together suggest that consciousness of punctuation has been aroused, but knowledge of proper devices has not followed upon awareness of their existence.

Many of the conditions existing in punctuation were found to exist also in the area of capitalization. The persistent errors and forgotten items were both chiefly caused by the use of capitals when they were not needed. Over-capitalization appeared to be less likely to occur persistently among brighter students than among slower ones. But three-fourths of the forgotten items were due to over-capitalization, and these were distributed among all I.Q. groups. In capitalization, as in punctuation, there seemed to be an awareness of the device as a tool of written expression without sufficient knowledge to insure correct use of the device. Particular attention is called to the item most frequently missed—capitalization of the word used in place of a person's name in the salutation of a business letter. This item was also the one most frequently forgotten. In view of the objective of social competence and vocational efficiency, stated in the philosophy of education adopted by the District of Columbia Public Schools, it would seem that this error is a grievous one.

The achievement in usage was very satisfactory, showing a gain of more than normally expected growth in spite of the fact that at the



beginning of the study the students were above their level of achievement in any of the other areas. Furthermore, usage showed the lowest percentage of persistent errors. Also, the correlation between intelligence and low percentage of error was variable, an indication that it is just as easy to teach one group of students by ear as it is to teach another.

Implied in the conditions in the area of usage is a favorable prognosis for best final achievement in the field in which there is best initial achievement in this school. Implied also is the environmental influence of the type of social community in which the students live. It is possible that the community does a good share of the teaching in this area. If so, the importance of the social pressure supports the argument for the functional approach to the study of grammar.

However great is the share of the environment in instruction in usage, all of the burden in this area cannot be cast upon the community, as scrutiny of the commonest errors will indicate. The most frequent errors occurred in items involving agreement of subject and predicate, correct verb-forms, correct word forms, redundancy. These items offer opportunity for the kinds of error that commonly occur in spoken English—for example, the plural verb with a double singular subject connected by *neither, nor*, or the use of a singular verb with a plural subject placed after the verb in a sentence introduced by an expletive. All but two of the errors found to be most persistent were also among the most frequently forgotten items. Mastery of usage would appear to require practice in written as well as in oral English and some study of formal grammar.

In spelling, achievement at the beginning of the study was in general below grade level; at the end, in the 11A grade, achievement was still below the level it should have reached in the 10A. Spelling showed the second highest percentage of persistent errors. The words most frequently missed were these *recommend, accommodate, countenance, conveniently, extraordinary, independent, occasionally, surprise, and elementary*.

Persistent errors in spelling were widely distributed among all groups of I.Q.'s, as also were the forgotten items. Progress was shown in the reduction of the field of errors, indicating the development of a spelling consciousness on the part of a great many students. But the low level of performance in a skill that is, or used to be, considered an elementary school subject means that great steps must be taken to secure mastery.

#### RECOMMENDATIONS

Recommendations based on the study are as follows:

##### 1. General Recommendations

That more time be allotted to written work in all semesters in all types of classes until individual mastery of basic skills is obtained.

That consideration be given to the general proficiency of students in relation to stated school objectives of social competence and vocational efficiency.

That there be an upward revision of standards for the students of superior ability.

That methods of teaching be used whereby the patterns of error may be broken down and that error and forgetting both be substituted by habits of correct response.

## 2. *Specific Recommendations for Various Areas of Basic Skills*

That in punctuation emphasis be put upon the punctuation of direct discourse, the use of the comma to separate the names of city and state, correct writing of possessives of nouns and pronouns, and avoidance of commas with restrictive clauses and trivial pauses.

That to help overcome the tendency towards over-punctuation this rule be mastered: *Use punctuation marks only when you know the reason for such use.*

That in capitalization drill for mastery be given in these items: the word used in place of a person's name in the salutation of a business letter, names of political bodies, nouns which designate definite geographical portions of the country, proper adjectives, titles of respect, names of rivers, oceans, mountains.

That to help overcome the tendency towards over-capitalization this rule be mastered: *Use a capital only when you know the reason for its use.*

That in usage drill be focused on the principal parts of troublesome verbs, that formal grammar be taught to overcome the colloquialisms of redundancies and lack of agreement between subject and predicate.

That spelling be considered a regular part of the classroom instruction in senior high school English and that remedial classes be established for students of less than 10A achievement in spelling.

## THE STUDENT COUNCIL IN AMERICAN SECONDARY SCHOOLS: CRITERIA AND INSTRUMENTS OF EVALUATION

by ROBERT GRISWOLD VANDERLIP \*

Student cooperation in the administration of the school provides an opportunity for students to express themselves and to assume responsibilities. This has long been considered a wise procedure by many educators. From the time of the Greeks there have been schools in which authority and responsibility for certain phases of the school's program were given to the students.

In the public's mind this means student responsibility for student discipline, and so the term, student self-government. Unfortunately, the difficulties of student self-government when it was tried were not appreciated, and principals and teachers expected a maturity and ability on the part of students that was impossible. Thus there were failures. Nevertheless, the idea of student cooperation or participation persisted, mainly because the values were sound, and certain principals and teachers worked hard to make it succeed.

Today the movement has changed in scope and emphasis. The responsibility for student behavior is still present, but before it is undertaken it is studied carefully by the whole school, and while in operation, those active in the project receive teacher counsel when desired. Thus responsibility for student discipline in the corridors, in the cafeteria, and on the grounds may be exercised. *But this is a small phase of student participation in school management.*

Today it means any and all activities wherein the students assume major responsibility for the betterment of the school. It includes the conducting of war drives, giving assemblies, financing extra-curricular activities, proposing improvements, directing social affairs, awarding school pins and emblems, and many other activities. The emphasis is still on providing students the opportunity to cooperate and share in the administration of the school.

Because of the changes taking place in this movement and the lack of definitive writing on the subject the writer set out to describe the role of the student council in secondary schools and to construct an instrument for evaluating such a role. This resolved itself into proposing criteria of good student government, or student council, operation, and questionnaires for measuring the practice of such criteria.

A review of the literature led to a proposal of four tentative criteria of good student council operation. Each criterion was broken down into specifications giving explicit features or characteristics of the prin-

\* A.B. 1927, University of Michigan; A.M. 1931, Teachers College, Columbia University; Ed.D. conferred May 30, 1945.



ciple involved. In all, there were sixty-six specifications. However, there was need to prove further the validity of the criteria. To secure such proof it was decided to seek the judgment of experts in this field, and to study practices in a number of schools, selected because of their success in student government. The judgments of the experts and the practices found in the schools would serve to show wherein the specifications were strong or weak, and accordingly indicate revision.

The criteria were cast into a form for rating, and were rated and commented upon by a jury of forty-three experts. The experts were textbook authors in this field, instructors of courses in extra-curricular activities, principals and sponsors of schools where there were successful student councils, officials of the National Education Association, officials of the United States Office of Education, and other capable and interested individuals. The criticisms and ratings given were very enlightening, emphasizing controversial practices and a resultant need for revision. Subsequently the criteria were rewritten into five criteria, and revisions were made in a number of specifications.

The next validation procedure was to check the criteria and specifications in the light of student government practices in twenty-two schools recommended for their success in this field. These schools represented the more common organizational types, such as the junior high school, three-year senior high school, four-year senior high school, and the six-year junior-senior high school. The enrollments of the schools ranged from 5200 to 300, with a median enrollment of 1375, and were situated in Washington, D.C., Maryland, Philadelphia and its environs, New Jersey, and New York City.

As the criteria could not be applied directly as a measuring instrument, three check lists or questionnaires were constructed, involving several revisions and trials in the process. The longest check list, concerning the council's organization and its place in the school, was for the principal and sponsor to answer; there was also one for the student council members and a sample of the student body. As each questionnaire brought out different phases of the problem, this served to give a three-way analysis of the student council concerned. The questionnaires, except those for the principal and sponsor which were completed in advance, were administered by the director of the study when he visited the schools. The students' questionnaires were unsigned. By means of the information secured in the questionnaires, interviews with principal, sponsor, and student council officers, observations of council meetings, and written matter such as handbooks and constitutions, a broad evaluation of the particular council was secured.

When these data were tabulated and compared with the criteria and specifications, further revisions were made. This completed the validation of the criteria in this study. The role of the student council, thus,

appears to be defined with a certain accuracy and comprehensiveness that was the objective of the study. The questionnaires, with revisions, constitute instruments which should prove helpful to those wishing to evaluate the operation of a student council.

The criteria and specifications in final form follow. The explanatory material accompanying the specifications can be found in Chapter X of the dissertation and the questionnaires in Chapter XI.

### CRITERIA OF A GOOD STUDENT COUNCIL

#### Criterion One

*A good student council has clearly defined powers and responsibilities which it understands.*

The specifications needed to satisfy this criterion follow:

1. It has the power to speak for the student body, to discuss the school's program, and to propose action for the betterment of the school.

2. It has definite jurisdiction over certain areas of student activity, which are to be determined by school policy.

3. It has a maximum of control over its funds, although such control is guided by school policy and subject to the principal's veto.

4. Its source of power lies in the delegation to it by the principal of responsibility in certain activities; however, he reserves the right to veto action which he considers detrimental to the school, after having explained his position to the school.

5. The council's powers and the veto right of the principal are clearly set forth in the council's constitution.

6. The council's purposes, powers, and responsibilities, and the veto right of the principal are understood by the student council.

#### Criterion Two

*A good student council practices accepted democratic principles in its operations; its constitution and by-laws are carefully planned and democratically conceived.*

The specifications needed to satisfy this criterion follow:

1. In a properly functioning student council, race, religion, or social status do not bar a pupil from participation in council activities.

2. Membership in the council is open to any qualified pupil in the school duly elected by his homeroom or some other authorized body. Candidates for membership should have qualifications deemed necessary by the student body and stated in the constitution.

3. Student units which elect representatives must be small enough to keep close contact with the activity of their representatives.

4. Elections of officers and council members are held twice a year.

5. Elections are carried on in a dignified manner, and there is strict accounting of ballots.

6. After the minority has had a fair opportunity to express itself, it accepts the decision of the majority in good spirit.
7. The council protects the rights of minorities, particularly in respect to freedom of speech.
8. All council activities must be authorized by the council.
9. The council must represent the entire student body with equal representation of electing units.
10. The council assigns its duties and tasks as far as possible to the pupils most capable of carrying them out, and holds its officers and committees responsible for the progress made on such activities.
11. The council accepts responsibility for its failures as well as its successes.
12. Pupils have the right to revise or rescind their previously approved actions.
13. The right of petition is permitted, and understood by pupils.
14. Candidates for leading offices should meet requirements of scholarship and citizenship, along with other factors, such qualifications having been determined democratically by the students.
15. Every pupil in the school participates in the election of one or all of the officers.
16. Provision through generally recognized democratic procedures is made for the removal of officers and members who are grossly inefficient or unfaithful to their duties.
17. Planning in a democratic manner on the part of leaders precedes the initiation of activities.
18. The homeroom representative expresses his constituents' point of view as well as his own; he reports the action of the council to his homeroom completely and clearly.

#### Criterion Three

*A good student council is supported on the part of the faculty and principal by a true understanding of the council's role; in addition, the attitude of the principal and faculty is sympathetic.*

The specifications needed to satisfy this criterion follow:

1. The principal recognizes that the council can contribute to the school's program.
2. The necessary means are taken to keep the faculty continuously informed of the role of the council.
3. The principal and faculty demonstrate their faith and confidence in the council by calling upon it for assistance.
4. There is a planned program throughout the year to acquaint the entire student body with the council's purposes, functions, problems, and activities, to the end that it will receive the maximum of student interest and support.



5. The homeroom teacher cooperates by (1) helping the new representative learn and practice the duties expected of him as a new member of the student council; (2) by informing the homeroom of its relationship to its representative.

6. Teachers give sympathetic consideration to problems proposed by pupils.

#### Criterion Four

*A good student council has a sound functioning organization.*

The specifications needed to satisfy this criterion follow:

1. The council operates by the authority and according to the provisions of a constitution, formally adopted, and regularly ratified by the student body.

2. It has planned meetings weekly, a satisfactory meeting place, a satisfactory time of meeting, and adequate time to do its business.

3. The membership of the council should be approximately thirty-five or less. In schools over 1200 some form of a two-house system should be used, to include a representative assembly and a smaller council for deliberation and planning.

4. It has an adviser who regularly gives adequate time and attention to its work. Five hours of school time per week is a minimum.

5. The adviser is enthusiastic about the council's activities and is trained in the philosophy and techniques of student council work.

6. Definite provision should be made for the training of student council officers and members. Such training should include: (1) general orientation concerning the purposes, authority, duties, and responsibilities of council members; (2) specific training concerning procedures.

7. The adviser of the council is its counselor; he is expected to aid the council in ways to promote its success although he is to maintain an advisory role when it makes decisions. He cannot veto action of the council unless he is also the principal. The constitution should state that the sponsor is an advocate and that he does not have the veto power.

8. In addition to the method of selecting the sponsor through the principal's appointment it is suggested that election of the sponsor by council members be tried, the members electing their sponsor from a list of nominees agreed upon by the council and principal.

9. The council must be given the opportunity to experiment; to be on its own; it has the right to fail as well as succeed.

#### Criterion Five

*An effective student council has prestige, serves the school willingly, and enlists the ready cooperation of the student body.*

The specifications needed to satisfy this criterion follow:

1. The student body considers the council its agent of expression in the school.

2. The student body understands the purposes of its student council.
3. Students understand and fully recognize both the extent and limitations of the council's powers.
4. The average student feels that he is represented.
5. Pupils show readiness to submit plans or suggestions to the council or its members.
6. Council members are willing to learn the skill needed in prosecuting council activities successfully.
7. Student council projects are worth while and challenging.
8. The homeroom assumes responsibility for the election of the best representative; it holds him accountable for performing his duties faithfully; it may unseat him.
9. Homeroom representatives make every effort to attend all meetings of the council and their attendance is systematically recorded by the secretary.
10. The council program involves the direct participation of a maximum number of students.
11. The student council promotes leadership and self-control among members of the student body.
12. The student council promotes a mutual respect of personalities both in student-student and student-teacher relationships.
13. The student council furthers school morale by fostering a feeling of partnership in the school enterprises, by demonstrating faith in individual pupils to respond satisfactorily to responsibilities, by building confidence in the school's leaders (both pupil and teacher), and by encouraging widespread participation in the formation of school policies.
14. The student council encourages pupils to: (1) be free to express opposition to any project, which, in their opinion, is open to question; (2) be alert to weaknesses in the school and to show their concern in a cooperative way to do something about such weaknesses; (3) develop a sense of civic duty that will encourage them to carry out all assignments.
15. All officers of the council and chairmen of committees understand their privileges and responsibilities and carry them out in a responsible manner.

## A PARTICULAR PROGRAM OF INSTRUCTION IN ARITHMETIC IN GRADES I, II, AND III

by DANIEL BANKS WILBURN \*

The discussion in this report describes a teaching program in the conduct of meaningful learning in arithmetic in the three grades of the primary school, and reports the successes of the pupils who depended upon the instruction. The program of instruction in this study provided that the pupils move forward progressively, and learn meaningfully an appropriate content of arithmetic in the three primary grades through a systematic study of the number system. The systematic methods for studying the number system presented the pupils were counting groups, comparing groups, and analysis and synthesis of groups.

### THE PUPILS

The 546 pupils who were enrolled in Grade I in 21 rural schools in Berkeley County, West Virginia, for a period of four school years, beginning in September, 1939, and ending in May, 1943, were the subjects in this study. Of the number who entered Grade I, 294 pupils moved forward through Grade II, and 112 pupils out of the number completing the course of instruction in Grade II continued with the work of Grade III.

### THE CONTENT OF THE PROGRAM OF INSTRUCTION

The topics for study at each grade level are stated briefly as follows:

#### Grade I

The forty-five additions with sums of ten or less and their corresponding subtractions.

#### Grade II

The addition and subtraction of tens

The addition and subtraction of ones and tens

Additions and subtractions in the higher decades without bridging

Column additions with three addends with sums of eighteen or less

The thirty-six additions with sums from eleven to eighteen and their corresponding subtractions

The twenty-three divisions with dividends from four to eighteen and their corresponding multiplications

#### Grade III

Multiplication of tens, ones and tens without carrying

The thirty-nine multiplications with products from twenty-one to eighty-one and their corresponding divisions

\* A.B. 1936, Shepherd State Teachers College; A.M. 1940, West Virginia University; Ed.D. conferred May 30, 1945.



Addition of ones and tens with carrying  
Multiplication of ones and tens with carrying  
Subtraction of ones and tens with borrowing  
Even division of tens  
Uneven division of ones  
Division of tens when tens are carried back

#### THE PROGRAM OF EVALUATION

If any evaluation of the progress of the pupils from an objective viewpoint was to be made, a testing program was necessary. Tests which were designed to measure the successes of the pupils were constructed and administered in Grades I, II, and III. In Grade I, four tests were administered. The content of each test is as follows:

1. Forty-five addition combinations with sums of ten or less
2. Forty-five subtraction combinations with minuends of ten or less
3. Forty-five verbal statements involving the forty-five addition combinations with sums of ten or less (Example: Jim had five rabbits. Father gave him two more rabbits. How many rabbits does Jim have now?)
4. Forty-five verbal statements involving the forty-five subtraction combinations with minuends of ten or less

One test was administered in Grade II. It contained 95 addition facts, 76 subtraction facts, 23 division facts with dividends from 4 to 18, and their corresponding multiplication combinations. Also, this test included 25 written statements. Each test item correctly answered was scored as one point. Thus, the highest possible score obtainable was 242.

In Grade III, two tests were administered to the pupils. The one test dealt with examples involving the four fundamental processes and ten written statements which presented familiar number situations. The other test entitled, "Meaning of Numbers and Arithmetical Processes", was designed as an attempt to determine the extent of the development of various number ideas and meanings attached to the four fundamental processes of arithmetic which the program of instruction proposed to have the pupils formulate in the three primary grades.

Each item in these two tests administered in Grade III was counted as one score point. In the first test for Grade III described above, there was a total of 154 items. In the test, "Meaning of Numbers and Arithmetical Processes," there were 72 items. Directions for administering and scoring all tests in Grades I, II, and III were supplied the teachers of the experimental classes. Time limits within which the pupils were to complete the whole of a test or the particular sections of a test were not set up. The pupils had allowed them as much time as was necessary to complete the various tasks. Also, the writer administered one or more sections of each test in each classroom in the three primary

grades. Such was done in order to assure within limits a uniform procedure for testing in the several classrooms.

Furthermore, at each grade level the appropriate primary battery of the "Metropolitan Achievement Tests" was administered in order to compare the achievements of the pupils who learned their arithmetic according to the program of instruction with pupils throughout the country who learn their arithmetic through the assistance of other instructional procedures.

The devices described above, however, were not the only means employed to evaluate the successes of the pupils. For the duration of the experiment, the teachers kept records of their observations of the pupils at work. From time to time pupils were interviewed in order that certain data as to habits of work, and as to methods of thinking which could not otherwise be obtained would be made available. In another section of this report, the results of teachers' observations are described by their comments, and a number of records of interviews with pupils in Grade II are recorded. The section of this report which follows presents the record of the successes of the pupils in Grades I, II, and III with the program of instruction as measured by the testing program.

#### THE RESULTS OF THE TESTING PROGRAM

Tables I, II, III, and IV present data describing the achievements of the pupils in Grade I with the program of instruction as measured by the tests for this grade which were described above.

Table I may be read as follows:

In the school year, 1939-40, 72 pupils were examined. One-half of the total number of pupils to whom the test was administered made a perfect score, and the range of the scores was between 4 and 45. Tables II, III, and IV are read in the same manner as Table I.

TABLE I

NUMBER OF PUPILS, MEDIAN, AND RANGE OF SCORES ON FORTY-FIVE ADDITION COMBINATIONS WITH SUMS OF TEN OR LESS IN GRADE I EACH SCHOOL YEAR

Year	No. Pupils	Median	Range
1939-40	72	45	4-45
1940-41	97	45	2-45
1941-42	196	43.6	2-45
1942-43	176	44.3	2-45

TABLE II

NUMBER OF PUPILS, MEDIAN, AND RANGE OF SCORES ON FORTY-FIVE SUBTRACTION COMBINATIONS WITH MINUENDS OF TEN OR LESS IN GRADE I EACH SCHOOL YEAR

Year	No. Pupils	Median	Range
1939-40	72	45	5-45
1940-41	95	43.3	3-45
1941-42	195	43.8	2-45
1942-43	175	43.6	4-45

TABLE III

NUMBER OF PUPILS, MEDIAN, AND RANGE OF SCORES ON FORTY-FIVE VERBAL PROBLEMS INVOLVING FORTY-FIVE ADDITION COMBINATIONS WITH SUMS OF TEN OR LESS IN GRADE I EACH SCHOOL YEAR

Year	No. Pupils	Median	Range
1939-40	72	45	9-45
1940-41	97	43.9	10-45
1941-42	194	43.4	0-45
1942-43	176	43	0-45

TABLE IV

NUMBER OF PUPILS, MEDIAN, AND RANGE OF SCORES ON FORTY-FIVE VERBAL STATEMENTS INVOLVING FORTY-FIVE SUBTRACTION COMBINATIONS WITH MINUENDS OF TEN OR LESS IN GRADE I EACH SCHOOL YEAR

Year	No. Pupils	Median	Range
1939-40	72	45	3-45
1940-41	97	43.6	14-45
1941-42	191	42.4	1-45
1942-43	175	42.4	5-45

The success of the pupils in Grade II with the program of instruction as revealed through the administration of the arithmetic test designed for this grade is indicated in Table V which is presented below.

This table may be read as follows:

In the school year, 1940-41, 64 pupils were examined. The median score for this group of pupils is 236, with  $Q_1$  at 229,  $Q_3$  at 240. The range of the scores is from 158 to 242.



TABLE V  
NUMBER OF PUPILS, MEDIAN,  $Q_1$ ,  $Q_3$ , AND RANGE OF SCORES ON  
TEST FOR GRADE II EACH SCHOOL YEAR

Year	No. Pupils	Median	$Q_1$	$Q_3$	Range
1940-41	64	236.3	229.1	241.9	158-242
1941-42	82	228	214.9	236.1	46-242
1942-43	143	221.2	207.4	233.7	103-242

The description of the achievement of the pupils in Grade III as determined by the results from the administration of the arithmetic tests described above is presented in Tables VI and VII. In Table VI, data are given relative to the pupils' successes with the instructional program as measured by the test in fundamental processes and problem solving. Table VII indicates the extent of the development of the pupils' understanding of the number relationships and meanings of the arithmetical processes as derived from the results of the test, "Meaning of Numbers and Arithmetical Processes". Tables VI and VII may be read as were the preceding tables.

TABLE VI  
NUMBER OF PUPILS, MEDIAN,  $Q_1$ ,  $Q_3$ , AND RANGE OF SCORES ON  
TEST FOR GRADE III IN FUNDAMENTAL PROCESSES AND PROBLEM  
SOLVING EACH SCHOOL YEAR

Year	No. Pupils	Median	$Q_1$	$Q_3$	Range
1941-42	55	133.7	113.6	144.7	52-154
1942-43	57	133.7	113	147.3	52-153

TABLE VII  
NUMBER OF PUPILS, MEDIAN,  $Q_1$ ,  $Q_3$ , AND RANGE OF SCORES ON  
TEST, "MEANING OF NUMBERS AND ARITHMETIC PROCESSES",  
IN GRADE III EACH SCHOOL YEAR

Year	No. Pupils	Median	$Q_1$	$Q_3$	Range
1941-42	52	63.8	35.5	67.6	11-72
1942-43	55	59.8	44.2	66.5	14-72

THE SUCCESSES OF THE PUPILS AS MEASURED BY THE  
METROPOLITAN ACHIEVEMENT TESTS

Tables VIII, IX, X, XI, and XII reveal data which describe the achievements of the pupils in Grades I, II, and III with arithmetic

when measured by the "Metropolitan Achievement Tests". Table VIII describes the achievement of the pupils in Grade I for each school year with the test entitled, "Numbers", Metropolitan Achievement Tests, Form B: Primary I. Tables IX and X show respectively the results from the administration of the tests, "Arithmetic Fundamentals", and "Arithmetic Problems", Metropolitan Achievement Tests, Form B: Primary II in Grade II. In Tables XI and XII, the results from the administration of the tests, "Arithmetic Fundamentals", and "Arithmetic Problems", Metropolitan Achievement Tests, Form B: Primary III are presented.

Table VIII may be read as follows:

In 1940-41, ninety-one pupils were examined, and the distribution of score revealed a median of a grade score of 2.8.  $Q_1$  was at the grade score 2.4 with  $Q_3$  at 3.0. The range of grade scores was between 1.4 and 3.6. Tables IX, X, XI, and XII may be read in the same manner.

TABLE VIII

NUMBER OF PUPILS, MEDIAN,  $Q_1$ ,  $Q_3$ , AND RANGE OF SCORES ON TEST IN NUMBERS, METROPOLITAN ACHIEVEMENT TESTS, FORM B: PRIMARY I, IN GRADE I EACH SCHOOL YEAR

Year	No. Pupils	Median	$Q_1$	$Q_3$	Range
(*)					
1940-41	91	2.8	2.4	3.0	1.4-3.6
1941-42	193	2.9	2.4	3.1	1.0-3.6
1942-43	174	2.9	2.5	3.1	1.1-3.8

\* The Metropolitan Achievement Test was not used with the seventy-two pupils in Grade I in the school year, 1939-40. A complete report of the pupils in Grade I during the school year, 1939-40, may be found in "The Elementary School Journal", January, 1942, pp. 171-180.

TABLE IX

NUMBER OF PUPILS, MEDIAN,  $Q_1$ ,  $Q_3$ , AND RANGE OF SCORES ON TEST, ARITHMETIC FUNDAMENTALS, METROPOLITAN ACHIEVEMENT TESTS, FORM B: PRIMARY II, IN GRADE II EACH SCHOOL YEAR

Year	No. Pupils	Median	$Q_1$	$Q_3$	Range
1940-41	63	3.5	3.2	3.6	2.7-3.9
1941-42	81	3.4	3.2	3.6	1.5-3.9
1942-43	142	3.2	3.1	3.5	2.1-4.3

TABLE X

NUMBER OF PUPILS, MEDIAN,  $Q_1$ ,  $Q_3$ , AND RANGE OF SCORES ON TEST, ARITHMETIC PROBLEMS, METROPOLITAN ACHIEVEMENT TESTS, FORM B: PRIMARY II, IN GRADE II EACH SCHOOL YEAR

Year	No. Pupils	Median	$Q_1$	$Q_3$	Range
1940-41	63	3.5	2.9	3.9	2.1-4.5
1941-42	81	3.0	2.8	3.5	2.3-4.5
1942-43	142	2.8	2.6	3.2	2.1-4.5

TABLE XI

NUMBER OF PUPILS, MEDIAN,  $Q_1$ ,  $Q_3$ , AND RANGE OF SCORES ON TEST, ARITHMETIC FUNDAMENTALS, METROPOLITAN ACHIEVEMENT TESTS, FORM B: PRIMARY III, IN GRADE III EACH SCHOOL YEAR

Year	No. Pupils	Median	$Q_1$	$Q_3$	Range
1941-42	47	4.3	4.1	4.9	3.1-5.4
1942-43	53	4.4	4.1	4.9	2.8-5.3

TABLE XII

NUMBER OF PUPILS, MEDIAN,  $Q_1$ ,  $Q_3$ , AND RANGE OF SCORES ON TEST, ARITHMETIC PROBLEMS, METROPOLITAN ACHIEVEMENT TESTS, FORM B: PRIMARY III, IN GRADE III EACH SCHOOL YEAR

Year	No. Pupils	Median	$Q_1$	$Q_3$	Range
1941-42	47	3.9	3.3	4.5	2.7-6.1
1942-43	53	3.9	3.3	4.2	2.6-5.4

#### INTERVIEWS, OBSERVATIONS, AND COMMENTS

There are many outcomes of the learning process which cannot be described by the analysis of test results and other objective data. Usually these outcomes must be measured through the observation of signs which give evidence of the development of attitudes, habits, and understandings.

The writer conducted the interviews and made the observations which are recorded herein at the time of the administration of the final tests. They are typical of the interviews and observations made by the teachers from time to time throughout the periods of instruction. The record of the interview which follows describes certain understandings



of a pupil in Grade II relative to the meanings of the processes of addition and subtraction. The interview proceeded as follows:

Interviewer: Let us pretend you forget that six and three are nine. How can you find the answer?

Pupil: I can put down six rings and three rings. Then I count the rings to find the answer.

Interviewer: Is it easy to put sixty and thirty together?

Pupil: Yes. You think only of putting six and three together.

Interviewer: Don't you use the zero?

Pupil: Yes. You write the zero in one's place, and then, you think together six tens and three tens.

Interviewer: What do you put together when you add forty-one and forty-five?

Pupil: When I add one and five, I am putting ones together. When I add four and four more, I am putting tens together.

Interviewer: What is the difference between adding ones and adding tens?

Pupil: There's no difference.

Interviewer: Why?

Pupil: When you add tens, they are put together just like ones.

Another record of an interview with a pupil in Grade II follows, and indicates that understandings were not neglected.

Interviewer: Let us pretend that you forgot the answer to the addition, 9. Can you find the answer?

5

Pupil: Yes. I can think nine and one are ten, and ten and four more are fourteen.

Interviewer: Where do you get the one?

Pupil: I get one from five, and that leaves four.

Interviewer: What do you see in this addition, 71? (Addition previously was written on paper).

45

Pupil: I see one and five, and seven tens and four tens.

Interviewer: Does the way the seven tens and four tens are written make you think of anything else?

Pupil: Yes. They are the same as four tens and seven tens, and the figures make me think of seven ones and four ones.

Interviewer: How do you add seven tens and four tens in the addition, 71?

45

Pupil: Just as I add seven and four.

An interview with the same pupil continued later as follows:

Interviewer: How do you know that five threes are fifteen?

Pupil: I can make marks until I have five groups with three in each group.

Interviewer: After you make the marks what do you do to find the answer?

Pupil: I count the group of threes.

- Interviewer: How did it happen that you worked all the problems in the test?  
 Pupil: They were easy.  
 Interviewer: Were they hard to read?  
 Pupil: No.  
 Interviewer: What made the problems so easy?  
 Pupil: We have worked problems like them before.  
 Interviewer: What do you think about when you read the words, "how many", or "all together"?  
 Pupil: They tell me to add.  
 Interviewer: Do you like to study arithmetic?  
 Pupil: Yes.  
 Interviewer: Why?  
 Pupil: Because, I like to work.

The foregoing records of interviews, and the results from Test-G seem to indicate that the pupils of this experimental study learned more than mere sets of arithmetical facts. Moreover, the pupils seem to indicate by their actions and attitudes toward their work in arithmetic that they developed a spirit of independence and resourcefulness. Evidence of such resourcefulness and independence was exhibited in the work of many pupils. Thus, it seems appropriate to describe a device used by a pupil to think the answers to a number of multiplications and divisions.

Rows of figures were written across a piece of scratch paper in the following order:

6, 12, 18  
 3, 6, 9, 12, 15, 18  
 2, 4, 6, 8, 10, 12, 14, 16, 18

When the pupil was asked regarding the meaning and use of these figures, he replied, "If I don't remember the answer to a division or multiplication, I count to find the answer".

Then the pupil was asked, "How can you find the answer to the division,  $3 \overline{)15}$ , with the use of these figures?"

The pupil answered, "I begin with three, and I count the figures to fifteen. When I have finished, I have counted five figures. You see, I have been counting groups of three".

Next, the pupil was asked, "How can you with these figures find the answer to the multiplication,  $\begin{array}{r} 3 \\ \times 5 \end{array}$ ?"

$\times 5$

He answered, "I count beginning with three. I know that two threes are six, and that three threes are nine. When I get to fifteen, I have counted five threes".

Since the teachers found that their pupils were developing meaningful number ideas as well as learning an appropriate content of arithmetic, they enthusiastically offered comments relative to the effectiveness of the instructional program. The statements of three teachers which

follow are representative of the opinions of the teachers who administered the teaching procedures of this experimental study:—

"I have a good opinion of these methods of teaching arithmetic because I have never used teaching procedures which gave such satisfying results. Previously, I was never quite sure that a primary-grade pupil knew the arithmetic which was presented to him. When a pupil can work out a difficult problem, while you watch him, or while you give your attention to other pupils, there is not any doubt in my mind that the pupil is growing in arithmetical knowledge.

"On an achievement test, my second-grade pupils were confronted with a problem which involved the subtraction of dollars and cents. The subtraction was worked correctly. The meaning of the process was so clear that they were not confused by the situation even though problems dealing with money had not been included in their experiences.

"I am very glad to have had a part in this experiment, and I hope to be able to carry forward the teaching procedures with other pupils next year".

"This method of teaching arithmetic becomes more interesting as you teach it. I have followed the teaching procedure for Grade I two years. My pupils in Grade II have learned their arithmetic, also, by the new method. They have learned to reason through problems which are presented without an undue amount of help from me. After the pupils understand the method of work involved in dealing with a particular process, they work rather independently.

"I think if we continue to follow closely these methods of instruction in the primary grades, we shall be able to send pupils to the intermediate grades who will not only be able to work independently, but they will be able to approach their work in arithmetic in these grades with confidence. Arithmetic has been a subject in which many pupils have rambled with little or no understanding. In other years, my pupils never seemed interested in the work in arithmetic, but now they ask for it at every vacant period. Truthfully, they think the arithmetic period real fun".

"The work is not only interesting, but it also gives the pupils confidence in themselves. Even the very slow pupils make unusual progress. The pupils like to do arithmetic. They look upon it as a kind of 'Number Game' in which they find enjoyment. When pupils learn to like arithmetic, they are certain to do their best work, and the pupils in the class have enjoyed their arithmetic. In the past, we have put too much emphasis upon speed in doing work, and the memorization of facts. Such emphasis discourages the slow pupils, and they learn to dislike arithmetic. I am thoroughly convinced that accuracy and understanding should be our goals instead of progress toward speed in work and mechanical mastery of facts.



"This method of instruction has given the pupils much greater reasoning ability. They are just as efficient in 'problem solving' as they are in the 'fundamentals'. I feel sure that if we continue to use this method of instruction, we shall not have so many pupils in the fourth, fifth, and sixth grades who are failures in their work in arithmetic.

"In conclusion, I wish to say that even the parents are becoming interested in the pupils' work. One patron when she was shown some work which was done by her child expressed herself as being greatly pleased to know that pupils in the third grade had such a broad background of knowledge and understanding of arithmetic".

#### SUMMARY

This report has described a study involving the learning of the arithmetic usually considered appropriate to the first three grades of the elementary school. The point of view relative to the nature of the learning activities employed in the study has been one which views the learning of arithmetic as the development in the minds of the pupils of a series of meaningful interrelated number ideas through the systematic study of the number system.

The effectiveness of the program of instruction which was presented to the experimental subjects was determined through the use of both objective and subjective instruments of measurement. If these methods of evaluation have been adequate, the following conclusions seem to be justified:

1. Pupils who begin in Grade I and move progressively forward through Grades II and III with the assistance of the teaching program employed in this study can learn successfully the content of arithmetic appropriate to Grade I and the two succeeding primary grades.
2. Also, the evidence presented in this report indicates that the pupils in this study did develop in their minds meaningful number ideas, and useful understandings with which they were able properly to rationalize the four fundamental processes.

The general comments which follow present additional evidence relative to the effectiveness of the teaching program:

As the pupils in this experiment progressed through the three primary grades in their study of arithmetic, they seemed to find each succeeding phase of a particular process no more difficult to learn to do than the initial phase. Also, according to the results from the final tests, the pupils seemed to find that they were able to give correct responses to examples dealing with each of the four fundamental processes with equal success. It is the writer's opinion that the consistent successes of the pupils with the four arithmetical processes can be accounted for partially by the fact that the teaching program attempted to make the learning of number facts a meaningful task. Through their study of

groups, the pupils developed meaningful number ideas which fitted together appropriate addition and subtraction facts into a single generalization related to a particular number group. In other words, the pupils became able through the rearrangements of a certain number group to tell the "whole story of six". In a similar manner, they developed the facts of division always in relation to the corresponding facts of multiplication.

Another factor which seems to have contributed to the successes of the pupils with the instructional program is the manner in which the pupils employed the language of number. They did not use the language of number as an artificial scheme whereby sets of meaningless unrelated answers were memorized. Instead, the pupils developed the language of number gradually as they clarified a particular set of number ideas by actually making or "thinking" the arrangements required. To present the same thought in another way, it may be said, that the pupils did not use the language of number as the content for drill exercises, but they employed it to express what they did in making arrangements only after the ideas involved were clearly understood.

## MANAGEMENT PRACTICES IN LARGE HIGH SCHOOLS

by SAMUEL HARRY BAKER, JR.\*

This study is concerned with the formulation of a set of criteria to be used in the evaluation of management practices in large high schools.

After a study of the literature in the field of management—business, industrial, and educational—a tentative set of criteria of school management was formulated. These criteria were discussed at some length with several authorities on management and were revised in the light of their criticisms. The revised draft of the criteria was then submitted for criticism to a jury of one hundred leaders chosen from among the ranks of public and private secondary school administrators and professors of secondary education. Seventy-two of these leaders responded and their criticisms formed the bases of the second revision of the criteria. From the second revision a check list of management practices consonant with the criteria was constructed. This was used to evaluate management practices in twenty large high schools that had the reputation of being well managed. A study of the data thus obtained led to the final revision of the criteria. From this revision a check list was prepared to facilitate the evaluation by secondary school principals of management practices in their schools.

The criteria follow:

### CRITERION ONE

*Good school management is characterized by a clear-cut delegation of authority, definite assignment of commensurate responsibilities, and a full understanding on the part of all concerned of the rewards and coercions to be used.*

Of course this criterion could be applied with equal force to most management situations. No doubt one could find many illustrations of its violation in government, business, and industry. However, it is possible that it has been violated in school management more frequently than elsewhere. It would appear that indefinite jurisdictional limits, overlapping authority, and inadequate systems of reward and coercion have played an important part in preventing school management from rendering its full service.

The specifications needed to satisfy this criterion follow:

1. The principal should have a clear understanding of his functions as delegated to him by his immediate superior officers, the terms of his contract of employment, and the state laws to which he is subject.

Not infrequently superintendents fail to define clearly the functions and duties of school principals. Sometimes the contract of employment

\* A.B. 1924, A.M. 1926, The George Washington University; Ed.D. conferred February 23, 1946.



is indefinite, omits important provisions, or includes irrelevant matter. Many principals do not know the state laws under which they work nor have they kept abreast of court decisions involving the interpretation of these laws. Copies of the statutes concerning the school law of the state are not to be found in the offices of many principals nor are they readily available to the principal in any nearby location.

2. The duties of assistant principals should be clearly defined and their working relationships specified as definitely as possible.

While assistant principals should be ready to assume special duties and responsibilities from time to time in order to relieve an overburdened principal, the major part of their work should grow out of a definite and fully understood delegation of authority and responsibility by the principal. Such delegation should be accompanied by maximum freedom of action, subject, of course, to accountability for results.

3. Department Heads or Convenors\* should understand their teaching, managerial, and supervisory responsibilities.

Supervisory responsibilities need particular clarification in many situations. Work relationships with general supervisors and principals need to be clearly defined. Responsibilities of the Department Head in connection with schedule making, the selection of textbooks, construction of the budget, and requisitioning of supplies need to be definitely stated.

4. Teachers serving part time as administrative assistants should have their administrative duties clearly stated.

Since learning involves a great many variable factors, the centralization of control over teaching tends to be relatively difficult and somewhat inefficient. This characteristic of the educational task makes necessary a considerable decentralization of management duties. Indeed, every teacher must, in a well-run school, assume a considerable number of administrative responsibilities. In addition, certain teachers with special training, e.g., guidance counselors, deans, grade advisers, etc., will need to assume numerous managerial functions. As indicated for other administrative assistants, these people should be given as much latitude as is consistent with the fixing of responsibility in the discharge of their work. The test of the principal's leadership here is not how good he is at "bossing" but how little "bossing" he has to do.

5. Teachers should know, within the limits imposed by the instructional task, what is expected of them in connection with classroom teaching, homeroom direction and instruction, extra-classroom sponsorships, administrative duties, committee work, and public relations.†

Teachers should understand the instructional responsibilities imposed

\* This position is also variously called Subject Field Chairman or Local Building Subject Department Chairman.

† Public relations as used in this study is concerned with a continuous and frank interpretation of the school and its problems to the public to the end that more intelligent and more complete cooperation may exist between the school and its public.

by a democratically-constructed school philosophy. The purposes of homeroom instruction and the importance of the homeroom in the achievement of the broader purposes of the school should be well understood and appreciated. The role of extra-classroom activities should be likewise understood. If management is to expect satisfactory administrative and clerical work from its teachers, it, in turn, must be definite in giving directions and must repeat its requests frequently enough to secure reports and actions in due time. Committee assignments need to be as definite as other teacher assignments and limitations on committee work need to be enforced. Too often the public relations responsibilities of teachers are vague and indefinite. It should be understood, however, that the nature of the instructional task requires that teachers have great freedom of action in the determination of the means to be used in meeting their assigned responsibilities.

6. The duties of all members of the office personnel should be clearly defined.

Such routine procedures as recording daily attendance, admitting pupils after absences, receiving incoming telephone calls, acting as switchboard operator for the school, receiving and giving directions to pupils, teachers, and visitors who desire to see the administrative officers, doing stenographic work, keeping the records of the school and the office files, and serving as registrar, should be clearly outlined and defined in order that all clerks who are to perform them may be able to systematize office administration and conserve the time of the administrative officers.

7. The Head Custodian of a large high school building, the Engineer, and the custodial assistants, must know definitely their responsibilities in connection with adequate maintenance and repairs.

Sometimes the entire responsibility is placed upon the Head Custodian who, without training, delegates it very inefficiently. Frequently the line of authority is divided between the Superintendent of Maintenance and the principal, resulting in confusion. Often the relations of custodians to teachers and pupils is left largely to the imagination.

8. The responsibility and authority of the school nurse, school doctor, school psychiatrist, and other special assistants, should be clearly defined.

Special assistants do not always understand their functions in relation to the broad aims of the school. Cooperation between teachers and special assistants is often less than one would desire.

9. Pupils must have a clear understanding of their duties and responsibilities in connection with student self-government.

If the Student Council is to function effectively it must know the limits of its jurisdiction and the conditions under which it must work. Other administrative officers and teachers must also understand these relationships.



## CRITERION TWO

*Management is a service to instruction. Its functions and therefore its organization and operating procedures are determined by the purposes of the school and its educational philosophy.*

Schools exist to facilitate learning growth and development in children. Their main task is selection, initiation, and direction, of learning experiences adapted to the individual needs of the pupils. Because of the sensitivity of pupil-teacher relationships and the complex nature of the learning process, it is probably more important to be guided by the service concept of management in school organization than in industrial organization. School management practices can rarely be justified in terms of managerial convenience or simplicity of organization; they must chiefly be evaluated in terms of their effect upon instruction.

The specifications needed to satisfy this criterion follow:

1. The Master Schedule should be constructed in such manner as to serve the needs of a maximum number of students. It seeks to make possible provision for the greatest individual development of each pupil.

Administrative convenience is too often the chief criterion in schedule construction. Teacher preferences are sometimes allowed to interfere with the satisfaction of pupil needs. It needs to be remembered that schools exist not for the purposes of management nor for the employment of teachers but for the education of pupils.

2. Homerooms\* should be organized to facilitate the achievement of their objectives in connection with orientation, guidance, student government, and other assigned activities. This involves the assignment of adequate time, use of the most fruitful classification of pupils, and the provision of adequate space and equipment.

Homeroom instruction makes heavy demands upon teacher skill, ingenuity, and effort. Frequently the type of organization used adds to these burdens. If homerooms are to serve their purposes most effectively, management must discover ways of lightening these teacher burdens.

3. Homeroom activities should be protected. Invasion of homeroom time by school activities which do not contribute to the established purposes of the homerooms should not be permitted. Only for exceptional reasons should students be excused from homeroom activities.

Homeroom instruction is not likely to be effective unless it is recognized to be as important in the achievement of the school's purposes as an equal amount of classroom instruction. In some schools management permits repeated invasion of homeroom time and frequently excuses pupils from homeroom instruction in such way as to leave the impression

\* Homerooms, as used in this study, refer to classes held during specially assigned full-length periods. They are not to be confused with short opening and closing periods devoted to such administrative matters as attendance, tardiness, home reports, and announcements.



that homerooms, after all, are not very important. It is better to abolish them entirely than to allow this condition to exist.

4. Management should provide homeroom teachers with as much assistance as possible in planning learning activities, handling records, counseling pupils, and contacting homes. Most important of all is the development of an appreciation of the purposes and values of the homeroom.

Most teachers have had very little training in homeroom procedures. Nowhere is supervisory help needed more urgently. Management should see that it is provided.

5. The assignment of pupils to classes should be of such nature as to enable teachers to make maximum provisions for individual differences and to make the best use of appropriate teaching procedures.

Adequate provision for individual differences is one of the major problems of the school. Rarely are teachers able to differentiate instruction in terms of individual differences to the extent that they desire. Skillful management in the assignment of pupils to classes can do much to help teachers cope with this problem.

6. Classroom time should be protected. Administrative announcements should not interrupt instruction. Except for very urgent reasons, teachers should not be called to the telephone while engaged in instruction. Visitors to the classroom should not be permitted to interfere with instruction. Substitution of other learning activities, e.g., assembly programs, which result in a decrease in classroom time, must be justified in terms of their educational values.

Schools exist only for the purpose of initiating, guiding, directing, and evaluating learning. The heart of the school is, therefore, the classroom. Management exists only to service classroom instruction. One might reasonably infer then that management is inefficient if it permits classroom time to be invaded.

7. Management should assign teaching loads that promote maximum teaching efficiency. This involves careful consideration of such factors as the total number of different pupils taught, the number of preparations per day, and non-classroom teaching assignments.

It is unfortunately true that some teachers do much more work than other teachers. It is obviously difficult for management to equalize teacher loads. Tenure provisions and the natural desire of management to assign responsibilities to the capable tend to overwork some teachers and permit others to do less than their full share. Nevertheless, efficient management must constantly strive to correct this condition.

8. Management should assist teachers to carry out their public relations functions by providing a continuous flow of information needed. (Facts concerning school purposes, organization of instruction, extra-classroom activities, costs, etc.)

Public relations programs in schools have often been organized for the efficient dissemination of information but without an adequate supply of information to be disseminated. Such organizations are of little value. Management must provide for the continuous collection of factual material, the processing of this material to make it usable in public relations programs. It must likewise arrange to have the finished product flow continuously to teachers and other agents in the public relations program. If teachers are to serve efficiently in the field of public relations, they must be informed.

9. Management should provide classroom teachers with adequate supervisory help in the discharge of their guidance functions.

It is assumed in this study that all guidance will not be assigned to specialists—that all personnel must share in the guidance program. Since guidance involves the use of specialized skills, classroom teachers will need supervisory help in the performance of their guidance responsibilities. Management should see that it is provided.

10. Management should provide guidance services in such way as to improve instruction.

Guidance officers should interrupt classroom instruction as little as possible. There are times when the solution of guidance problems must take precedence over classroom instruction. But, on the whole, guidance officers should recognize that their work should not interfere with the work of the other members of the school team. Guidance should promote independence of thought and problem solving ability that will make classroom instruction easier.

11. Management should see to it that committee assignments do not seriously interfere with instruction.

Able teachers should be protected from overburdening committee assignments. Committee reports should not interfere with lesson preparation.

12. Management should constantly assist teachers to interpret in a practical way the educational philosophy and purpose of the school.

References, committees, in-service training, and other means should be used to provide teachers with many illustrations of learning activities consonant with the school's philosophy and purposes.

### CRITERION THREE

*School management must reflect the unique nature of the educational task and the characteristics of the personnel involved.*

The process of guiding learning growth and development differs markedly from manufacturing and business processes. The raw materials (pupils) cannot be standardized. Many of their individual differences defy removal. Nor would it be wise, for the most part, to remove

them if it were possible to do so. Teaching, therefore, involves endless adaptation of learning activities to individual pupil needs and varying community situations. This demands skillful human engineering on the part of teachers; which, in turn, makes necessary a highly trained professional personnel.

The specifications needed to satisfy this criterion follow:

1. Management must recognize the unique characteristics of the personnel with which it is concerned.

The demands of their training and experience tend to make them individualists and tend to encourage the assumption of broad responsibilities. School management must recognize this.

2. School management must recognize that public opinion needs to be given careful consideration in both the planning and execution of school policies.

This does not imply subservience to public opinion. It merely recognizes the fact that schools are social institutions and cannot be effectively managed from an "Ivory Tower". Since, in this country, schools serve a democratic form of society, they should not merely permit but encourage public participation in school planning—particularly as it concerns the broad aims and purposes of the school.

3. Management should recognize that the school is only one of a number of cooperating social institutions servicing the community. Provision should, therefore, be made for cooperation with other social institutions in the community. Provision should likewise be made for the control and adjustment of conflicts that must arise where relatively independent institutions have overlapping jurisdictions.

A high school cannot operate in isolation. It needs the active support and help of the home, the church, various youth organizations, and other community agencies. Likewise, it is under obligations to reciprocate by assisting other social institutions in the community to do their work. Schools ought not to try to dominate the social scene but should exercise a coordinating leadership in all matters of an educational nature. Schools should be willing to serve as junior partners in non-educational community efforts. Other social institutions should recognize the school's obligation to lead in educational matters.

4. Management controls must recognize the intangible nature of many of the outcomes of the educational process.

Unlike the outcomes of industrial processes, education must be concerned with such difficult-to-measure products as cooperativeness, tolerance, and self-reliance.

5. Management should recognize the essential unity of the educational task.

Teamwork involves maximum cooperation and singleness of purpose



in the achievement of goals and objectives. Conflicting purposes and too rigid divisions of content reduce teaching efficiency.

#### CRITERION FOUR

*Management should provide for the kinds of organization and procedures needed to solve with optimum efficiency the various kinds of problems with which it has to deal.*

School management problems differ markedly in detail from management problems in other fields. Organization and procedures must be adapted to meet the specific school situations. Descriptions of proven best practices in connection with these school problems constitute a considerable portion of the literature in secondary school administration.

The specifications needed to satisfy this criterion follow:

1. Provision should be made for an adequate administrative and supervisory staff.

Too often management suffers because it is understaffed. Administrative loads in large high schools tend to be much greater than similar loads in government and industry. High school principals are chronically short of clerical assistance. Few high schools have a sufficient number of assistant principals.

2. The division of duties between members of the management staff should be determined by educational objectives and a scale of values consistent with the philosophy of the school. Such division of duties should recognize the particular qualifications of the personnel concerned.

Too often the principal retains for himself what he considers to be the more important administrative functions, delegating to his assistants the more uninteresting and troublesome routines. This frequently leads to almost complete preoccupation of assistant principals with matters of attendance and discipline. This tendency to centralize control of student behavior in the principal's office promotes what is sometimes called "good" management from a statistical viewpoint but often handicaps the development of powers of self-discipline in students and encourages them to shirk their responsibilities as school citizens. It is conceivable that a good division of responsibilities in some schools would place the main burden of management upon an assistant principal, leaving the principal free to devote a large part of his time to public relations and supervision. In other schools this division of responsibilities might well be reversed. In view of the fact that supervision, guidance, and provision of adequate facilities for instruction are so badly neglected in many schools, one may well question the large amount of time devoted to disciplinary matters by the principal's office.

3. Management should provide for proper balancing of the time of personnel consistent with the duties to be performed.

Problems in management execution, e.g., arranging for transportation

of a football team, making arrangements for an assembly, etc., tend to invade the time that should be devoted to supervision, management planning, and public relations. It is usually possible to postpone consideration of problems in these other areas; but problems in management execution press for immediate solution. Some relief from this situation might be achieved by (1) reducing the burden on management execution through more efficient procedures in management planning, (2) devising more efficient procedures in management execution, and (3) more careful budgeting of administrative time.

4. Management should provide for periodic reexamination of the curriculum to enable adaptation to the changing needs of the community and the pupil population.

Some compromise must be found between curriculum revision procedures that result in continuous change and do-nothing attitudes that result in a static curriculum. Too rapid change of curriculum materials places a heavy burden upon instruction and frequently reduces its efficiency.

5. Management should provide for the careful planning of policies controlling extra-classroom activities, for the efficient execution of these policies and for the necessary controls over them.

Extra-classroom activities should be considered an integral part of the learning experiences provided by the curriculum. They need the same careful management as is provided for classroom instruction.

6. Management should provide for adequate control over instructional outcomes.

The outcomes of instruction are hard to evaluate since many of the more important ones are intangible and reach fruition many years after the learning is experienced. Much skill is required of management in the use of testing procedures, follow-up studies, and the sampling of opinion in the evaluation of the outcomes of instruction. Nevertheless, without such evaluation, management planning is hopelessly handicapped.

7. Management should make adequate provision for the satisfactory control and direction of desirable pupil behavior.

The school cannot afford to take a narrow view of the control of pupil behavior. It is not merely concerned with obtaining satisfactory behavior while the child is in school; it must seek to develop acceptable behavior in all the social situations in which the pupil finds himself. This probably indicates the decentralization of control over tardiness, absenteeism and discipline, and emphasis upon the development of self-control on the part of students. Of course, the principal can never escape the ultimate decision in serious disciplinary cases.

8. Management should make provision for the efficient requisitioning, handling, and utilization of school supplies and equipment.

Management practices should be determined primarily by instructional needs and secondarily by commonly-used business practices. Not infrequently school supplies and equipment are handled with efficient smoothness from the standpoint of business practice but fail to satisfy instructional needs because of bad timing, inaccurate forecasts or specifications not in accordance with needs.

9. Management should provide the organization needed to assist in budget planning and should set up suitable procedures for the administration of the part of the budget concerned, after its approval.

Budgetary items ought to grow out of instructional needs. Teachers ought, therefore, to originate a great many of the budgetary proposals. If the budget is revised before adoption, teachers should likewise be consulted through proper administrative channels concerning needed changes. After the budget is approved, management must see to it that it is efficiently executed.

10. Management should provide for the efficient planning, operation, and control of auxiliary services under its jurisdiction.

Frequently the school cafeteria, the program of health services, the direction of out-of-school recreational activities, and other auxiliary services fall within the jurisdiction of school management. Since these services are not primarily school functions, it may be argued that school management should not be responsible for them, particularly since school management functions are usually understaffed. However, as long as these auxiliary services are assigned to school management, they should be managed efficiently.

11. Management should provide organization and procedures needed to gather and transmit the information needed by the superintendent's office promptly and efficiently.

High school management must share in educational planning for the entire system and must cooperate effectively in the functions of management execution assigned to the superintendent's office. It must also assist the superintendent's office in management control.



## PROFESSIONAL EDUCATION OF SECONDARY SCHOOL TEACHERS WITH IMPLICATIONS FOR PENNSYLVANIA

by WALTER STANLEY NOSAL \*

The purposes of this study are (1) to discover what new departures and innovations in the field of professional education are being carried on in progressive institutions; and (2) to point out what the thinking of authoritative groups was in this respect.

*Procedure.*—The procedure followed was to make a rapid survey of the educational literature in order to arrive at some tentative conclusions as to the institutions in this country which were pursuing experimental programs in the professional education of secondary school teachers. The Commission on Teacher Education of the American Council on Education ploughed through this ground several years ago, and therefore some precedent had been established for the selection of the representative institutions. Others, such as Syracuse University, Chicago Teachers College, Central Michigan College of Education, and the Cooperative School for Teachers, were selected as representative institutions pursuing independent efforts in this area. Correspondence with all Pennsylvania institutions was carried on in two instances in order to uncover any new departures or innovations. Likewise a letter was addressed to all the institutions of the cooperative study and others mentioned above in order to gain further information about the aspect of human growth and development. Thereafter, the study was largely concerned with searching the literature, especially the unpublished. In this connection the institutional reports to the Commission on Teacher Education, American Council on Education, were made available to the writer.

*Historical Background.*—Preliminary to the accomplishment of the purposes, a brief historical background of the rise and growth of the teacher training idea is examined in order to show the inception and development during the last few centuries.

The outstanding and most often cited "beginning" of teacher education came near the close of the 17th century and is credited to Father Domia who established a teacher's class in 1675 at Lyons, France. A few years later in 1685 Abbe Jean Baptiste de la Salle opened a seminary for schoolmasters at Rheims. However, neither of these early beginnings resulted in much progress in teacher education. France had to witness many changes for over a century before a more fruitful revival developed.

In Germany the early work of August Herman Francke around the close of the 17th century is noteworthy, but as in France the idea did not prosper. It was to be another century before the Prussian System

\* B.S. 1940, Indiana State Teachers College; A.M. 1943, The George Washington University; Ed.D. conferred February 22, 1946.

came into prominence and greatly influenced our early normal school development.

Although Richard Mulcaster advocated teacher preparation as early as 1581 in England, nothing of importance materialized for several centuries until the rise of the Monitorial System in the early 19th century.

American efforts at providing teacher education came largely after the opening of the 19th century and were aided through the efforts of men such as Samuel Read Hall, James Carter, Charles Brooks, Horace Mann, Henry Barnard, and David Page, to name just a few. The rise of normal schools, begun in Massachusetts in 1839, soon spread throughout the United States, but at best the training provided was rudimentary and left much to be done.

In Pennsylvania the idea of state participation in teacher education, although advocated for over half a century, did not take root until the passage of the Normal School Act in 1857. Thereafter, progress continued to be slow although numerous normal schools and liberal arts colleges were preparing teachers. Today there exist two rather distinct patterns of preparation in the state, one followed by the state-aided and state-owned institutions and the other by the privately owned liberal arts colleges of the state. Neither of these groups appears to be in the vanguard of attempts to improve the professional preparation of secondary school teachers.

*Recurring Emphases.*—No attention was centered on the general education and teaching field preparation of secondary school teachers. The present study was concerned exclusively with those aspects generally known as professional education. An examination of the educational literature shows that there is a growing trend in the direction of substituting broad areas for separate and discrete courses in education. The foremost of these are human growth and development, the role of the community in teaching, and student teaching. These areas along with the institutional efforts to promote integration largely constitute the body of the study.

*Understanding Adolescent Growth and Development.*—Recognizing that this treatment is only a section of the larger area of influences that affect learning it is pointed out that this approach seems to be mostly concerned with the developmental growth of children and tends to put less stress on the purely psychological aspects as they occur in learning experiences. The findings of studies, statements of authoritative groups, and the results of experimentation point out the weaknesses of programs which are designed to promote this type of understanding in conventional and traditional programs. Gathered recommendations are cited in order to compare what is being offered against what is suggested preparation. Sketches of programs as now offered at St. Catherine College, University of Texas, Western Michigan College of Education,



and Stanford University are included to point out what progressive institutions are doing to insure adequate preparation in this area. Under the influence of the human growth and development centers at the University of Chicago, University of California, Harvard University, Western Reserve, Catholic University, and Yale University there is a growing effort to include the facts, generalizations, and techniques gathered and developed at these centers into the preparation of secondary school teachers. This approach is useful in that it provides a means whereby the teacher becomes conscious of the many influences operating in the lives of youth, many of which may inhibit or promote learning. It is suggested that Pennsylvania institutions utilize this approach along with the present offerings in psychology.

*Community Understanding.*—Of several possible approaches, the one here is largely directed toward using the resources of the community in making teaching more effective. As in the previous chapter the findings of research, studies, and recommendations are cited. Brief descriptions of programs at Ohio State University, Chicago Teachers College, Mayville State Teachers College, the Cooperative School for Teachers, and Wayne University are included to point out new departures being carried on in these institutions. It was discovered that there is still too little agreement as to what constitutes community understanding. This has resulted in many different programs and patterns. Some are concerned with merely making available to prospective teachers the tools, techniques, and generalizations concerning this area, while others desire to give the student experiences on the several levels of social action. Under the latter philosophy some institutions are attempting to provide students with experiences that will be helpful in pursuing social, political, and economic reforms. The emphasis in the sketched programs is largely on the local scene which may result in a very provincial or limited view of the total world panorama. It is suggested that teacher training institutions in Pennsylvania provide experiences in which prospective secondary school teachers can see how the resources of a community can be utilized in the teaching role.

*Student Teaching.*—This phase of professional education received the most attention from cooperating schools in the Commission on Teacher Education Study. Several authoritative sources point out that on no other aspect of teacher education is there more agreement in theory and less agreement in practice. Criticisms of present preparation in this area and recommendations for improvement of this aspect are cited from authoritative sources. Student teaching is the most frequently used core around which to implement the theory learned in the education classes. The growing development in this area is the placement of prospective teachers in real situations in communities some distance from the campus for their final student teaching experiences. In these instances



all the usual duties of a teacher are provided the student. Sketches of the programs as found in the College of William and Mary, Syracuse University, and Florida State College for Women are included. These point out several methods whereby institutions meet the professional needs of prospective teachers in this area. The suggestion is made that Pennsylvania institutions provide for an intern experience to supplement the campus teaching experience.

*Integration.*—This relatively new and growing trend in programs of teacher education is shown from two sides: what authoritative groups believe to be the weaknesses in this area as regards the usual programs found in the preparation of teachers, and what these same groups believe should be the practices for integrating the professional experiences of prospective teachers. The institutional attempts of Central Michigan College of Education, Milwaukee State Teachers College, Syracuse University, and Columbia University are briefly described in order to point out how some institutions are meeting the challenge of integration. It must be said that the concern is genuine in trying to make more functional the skills, knowledges, and generalizations gained in the undergraduate professional programs. However, what is less positive and evident is the success of all these efforts. Integration as here defined and treated is largely concerned with the paralleling of theory and either observation or participation in some real situation. It seldom concerns the construction of an entire curriculum around a single theme or idea.

*Conclusions.*—Those findings and conclusions concerning the area of professional education are listed hereafter.

Programs for teacher education are for the most part based on opinion rather than scientific investigations. Very little evidence is found of the direct influence upon practices of the findings of research. However, this is not to say that the effect has been entirely missing.

From examination of educational literature and correspondence with all the Pennsylvania institutions preparing secondary school teachers, it became evident that institutional programs do not approach the experimental efforts of other institutions in attempting to resolve some of the issues that face educators in the area of professional education.

Three emphases recur oftener than any others in the professional preparation of secondary school teachers. These are student teaching, role of the community in teaching, and adolescent growth and development. The most characteristic feature of these programs is the attempt to integrate the experiences of students by combining or paralleling theory and practice phases. This is largely being done by requiring observation and participation with groups of young people and visiting the agencies in a community which can and frequently do supplement the work of the school.

The schools in the cooperative program of the Commission on Teacher

Education showed little or no interest in separate and discrete education courses. Their interests ran along the line of emphases pointed out in the preceding paragraph.

Internship is the newest departure in making the student teaching experiences of prospective teachers more functional and realistic. In this practice the student is sent into an ordinary school situation somewhat removed from the college campus where he engages in all the activities of the permanent teacher, lives in the community for a short period of time, and frequently makes a survey of the community.

The area, understanding community dynamics, has come in for much attention in the last decade and is apparently gaining the interest of a growing number of schools. The recency of this inclusion in programs of teacher education is reflected in the lack of standardization and agreement on aims, procedures, and practices although several elements in each program are common. The emphasis is largely that given to the local community with little attention to the larger world picture. The area appears to be largely concerned with making students conscious of the many community resources available for teaching purposes.

In addressing the preparation of prospective secondary school teachers to a more functional understanding of adolescent growth and development, institutions are resorting to more observation and participation with young people to supplement the research findings of many disciplines which are presented in the classroom. A criticism of this approach might be that the emphasis is largely on the developmental aspects and that it could treat more of the actual teaching-learning process as it develops in the classroom.

No panacea for the many problems besetting teacher education was found, nor were there any claims to the final solution of any problem. Each institution is faced with the solution of its own problems in its setting within the service area. However, this is not to be construed that assistance from the experiences of other experimental institutions is to be disregarded.

Qualitative changes are apparent in every cooperating institution and quantitative changes in many was the observation of one source. To the reader there will not appear anything too strikingly new among the program emphases as far as the educational literature is concerned.

The aspect of evaluation was perhaps the weakest phase of the new developments found. It has not progressed much beyond sampling a number of opinions and filling out questionnaires. The need for more objective evaluation of curricular experiences is urgent. Seldom are experimental groups matched with controlled groups in order to determine the relative effectiveness of different programs.

*Recommendations.*—On the assumption that successful and progressive practices of meeting the professional needs of prospective secondary

school teachers in various parts of the United States have some implication for the education of teachers in Pennsylvania, and that education is concerned with more than the transmission and interpretation of knowledge, the writer makes the following recommendations:

That more experimentation be carried on in the definition of ends and the means for accomplishing these ends before any definite recommendations, based on adequate evidence, be made concerning the particular merits of any pattern or program of teacher education.

That improvement of instruction in institutions preparing secondary school teachers will likely result from the efforts of the entire institutional personnel attacking the problems cooperatively rather than deriving any improvement from the administrative efforts of a few officials. There should be more encouragement for teachers to conduct studies and try out new methods in resolving old problems.

That Pennsylvania institutions make some beginning in studying and evaluating their present professional programs. Improvements will likely eventuate from the thinking and cooperative efforts that should evolve in the suggested action.

That more observation and participation with out-of-school youth and school youth along with community agencies be provided to make the theoretical aspects of education courses more meaningful.

That more encouragement from the State Department of Public Instruction and the State Council of Education be forthcoming to institutions wishing to experiment with new departures and financial assistance be provided for these undertakings.

That until more valid evaluations are made, there should be less dictation as regards the placement of subject matter and curricular experiences in the professional sequence.

That increasingly less utilization be made of separate and discrete courses in education and that the substitution of broad areas or emphases would be in keeping with the trend in this respect. These emphases should be integrated as regards the concomitance of theory and practice. This is in line with an increasing trend in high schools where broad areas are being substituted for narrow and separate courses.

*Suggestions.*—In pursuing the study certain concepts and views have come into focus from time to time. Although not substantiated by any documentation in this study, they are nonetheless suggested at this point.

That the constituted authorities consider the feasibility of increasing the preservice preparation of secondary school teachers to five years after the close of the present war. This is a growing trend among states. Seven states and the District of Columbia to date have made five years of preservice collegiate preparation the minimum for secondary school teachers.

That the professional preparation of secondary school teachers not



be confined simply to the instructional aspects of a position. At least five other types of assignment must be assumed from time to time by the modern high school teacher.

That in reorganizing curricula into broad fields and thereby eliminating the single courses in education, sight should not be lost of the contributions to be made by the history, philosophy, problems, and legal aspects of education. These might conveniently be welded into a course called *The School as an Institution*.

That teacher education institutions recognize the impossibility of completing the professional education of prospective secondary school teachers before their assuming teaching roles. Much professional growth must come as a result of inservice experiences and efforts.

## THE PROBLEMS INVOLVED IN THE ADMINISTRATION OF AN AUDIO-VISUAL PROGRAM

by JOSEPH BUEOL JOHNSON \*

### PURPOSE

It was the opinion of the writer that the proper utilization of audio-visual materials has been greatly handicapped because the administrative problems have not been satisfactorily solved. The purpose of this study was to investigate certain administrative problems arising out of the use of audio-visual instructional materials. More particularly, the study sought solutions to the following problems involved in the administration of an audio-visual program: (1) financial support, (2) preparation of the budget, (3) organization, (4) acquisition of materials and equipment, (5) operation of mechanical equipment, (6) distribution of materials and equipment, (7) adaptation of classrooms for projection materials, (8) storage and maintenance of materials and equipment, (9) in-service training of teachers, (10) correlation of materials with the local school curriculum, (11) selection of materials and equipment, (12) developing new areas of instruction, and, (13) public relations.

### PROCEDURE

A review of the literature revealed that 266 references mentioned numerous problems which were summarized into the thirteen basic problems listed above. A questionnaire, designed to determine how administrators attempt to solve these problems, was mailed to 362 superintendents and directors of audio-visual programs in the forty-eight states and the District of Columbia.

An attempt was made to substantiate and expand the information presented on the returned questionnaires through personal interviews with ten specialists (or consultants) in the field, nineteen directors of audio-visual programs, and fifteen classroom teachers who made extensive use of audio-visual materials in their teaching.

As a result of the study a set of criteria was established for the sound administration of an audio-visual program.

### FINDINGS

*Literature.*—There is voluminous literature on audio-visual instructional materials but only a small part of it is concerned specifically with administrative problems. It is estimated that slightly over 10 per cent of the literature which mentioned specific problems attempted to offer definite solutions based upon extensive research. The literature revealed that:

\*A.B., A.M. 1911, East Texas State Teachers College; Ed.D. conferred May 29, 1946.

1. School board appropriations, Parent-Teacher Association funds, partial assistance on a state-wide basis, and individual school efforts were suggested as sources from which funds may be secured.
2. The budget of an audio-visual program should include funds for the provision of an adequate staff, purchase and rental of materials, distribution and maintenance of materials and equipment, and purchase of equipment to be placed permanently in the various school buildings.
3. Every school system should have an organized audio-visual materials program with a full- or part-time director in charge.
4. Audio-visual materials and equipment are acquired in three ways: by purchase, by rental, and/or by loans.
5. A corps of student operators should be trained to assist in the operation of mechanical equipment.
6. The types of delivery service which may be used include a delivery service of the audio-visual department, the regular school mail or delivery service, hired package delivery service, pupil messengers, and teachers calling for materials.
7. Practical ways of adapting classrooms for projection must be developed. Methods now in use include roller shades, special commercial devices, venetian blinds, curtains or drapes, and opaque paper rollers.
8. Duties of the clerical and maintenance staff should include the keeping of an accurate record of all materials, issuing catalogues and bulletins of available stock, providing a system of requisitions, and the inspection and repair of all materials and equipment returned from the individual schools.
9. Various methods of in-service training for teachers include classes held by the director of the audio-visual program for general instruction; conferences and annual institute lectures, demonstration lessons, bulletins or special handbooks, national, state, and regional audio-visual meetings, a discussion of the problems by specialized professional groups, committees of teachers to evaluate available materials, cooperation of classroom teachers in the production of audio-visual materials, summer-session courses, and extension courses.
10. The correlation of materials with the school curriculum can be brought about through the director's participation in curriculum planning and revision. This correlation may be developed by organizing the curriculum around valuable materials or fitting materials into a course of study already prescribed.
11. Teachers should have a large share in the selection of audio-visual materials. The chief responsibility for the selection of equipment should rest with the director.
12. Audio-visual materials for new areas of instruction should be developed by the individual departments and by cooperation between school systems and commercial concerns.



13. With reference to audio-visual programs, there is a great need for liaison work among the school board members, administrative staff, teachers, parents, and the general public.

*Questionnaire and Personal interviews.*—Of the 362 questionnaires sent to superintendents and directors of audio-visual programs, 205 were returned. This constitutes a 56.6 per cent return. One hundred and eighty-four questionnaires were included in the statistical treatment of the data. These questionnaires represent a total of 4,747 individual schools with a combined enrollment of approximately 2,821,500 pupils.

Variation of pupil expenditures for audio-visual programs was not substantially affected by the size of the school system. The average expenditure for audio-visual programs for all school systems reporting was thirty-eight cents per pupil per year. The average expenditure for all school systems *including salaries* in their audio-visual budgets was forty-nine cents per pupil per year. When salaries were *not* included in the audio-visual budget the average expenditure was thirty-five cents per pupil per year. All school systems reporting spent an average of seven-tenths of one per cent of their total expenditures for audio-visual programs.

Four types of central organization were represented in the school systems in which visits were made. In twelve systems, the audio-visual department functioned as an autonomous or separate unit; in one, audio-visual instructional materials were administered as an integral part of the "Department of Libraries, Visual Aids, and Radio"; in two systems the programs functioned under the title of "Department of Curriculum and Audio-Visual Education" and "Department of Special and Audio-Visual Education". The most outstanding audio-visual program was found where audio-visual materials were administered as an integral part of the department of libraries and audio-visual materials.

It is almost a universal practice for most school systems to purchase (or construct) the more inexpensive items such as maps, charts, globes, flat pictures, objects, specimens, models, and most exhibits, records, transcriptions, slides and filmstrips. The greater portion of the motion pictures acquired, however, are still rented.

In all school systems, regardless of size or the type of audio-visual director employed, the most common practice was to utilize both students and teachers to operate mechanical equipment. The use of student operators has proved almost universally successful in junior and senior high schools and also in the upper elementary grades.

Few administrators seem to realize the immense amount of clerical and mechanical service required in distributing materials and equipment. It was found that a large majority of the audio-visual programs did not have enough clerical and mechanical assistants.

Eighty per cent of the school systems included in this study reported

## CRITERIA OF A GOOD MASTER SCHEDULE: WITH SPECIAL REFERENCE TO SMALL AND MEDIUM-SIZED HIGH SCHOOLS

by WILBUR DEVILBISS \*

The making of the master schedule is one of the most important duties of the high school principal. Among other things it tests his ability to plan, to organize, and to administer the program in his school; it reveals his philosophy and understanding of the objectives of secondary education; it indicates his concepts of relative values; and it represents the degree to which he can marshal all of the human and physical resources for the greatest benefits to the largest number. The morale of the teachers and pupils is conditioned by the effectiveness with which the schedule provides for them balanced and appropriate programs and good physical conditions under which to work. The failure to build a good master schedule is more than likely to lead to confusion and misunderstanding.

In visiting high schools of all sizes and in talking with principals about their problems, one problem frequently mentioned is that of building the master schedule. Often faced with limited personnel and inadequate physical facilities, the principal has a difficult task in making a schedule that is best suited to the needs and interests of the pupils.

### THE PROBLEM AND PROCEDURE

This study is concerned with the development of a set of valid criteria for a good master schedule in small and medium-sized high schools.

The attack on the problem involved a three-step procedure. First, a tentative set of five criteria, each with several specifications, was developed as a result of a study of the literature on the subject. Second, these criteria were submitted to the judgment of a number of high school principals and a jury of experts. From the criticisms and suggestions of these people the tentative set of five criteria was revised and reduced to four. Third, a comparison was drawn of schedules in use in 297 selected, good, small and medium-sized high schools with the type of schedule that would result from these four criteria and their specifications. This comparison was made by using a check-list in the form of a questionnaire which was sent to these good schools in each of the 48 states.

A letter was addressed to the chief state school officer in each state requesting the names of several principals of good schools in his state having enrollments of 75 to 500 and representing the four-year or six-year organization. A list of 437 schools was obtained.

\* A.B. 1925, Western Maryland College; A.M. 1935, University of Maryland, Ed.D. conferred October 18, 1946.

To each principal of the 437 good high schools was sent a copy of the questionnaire with a covering letter. The neatness and completeness with which the questionnaires were answered indicated that the principals were interested and gave generously of their time. There were 297 (69.7 per cent) of the questionnaires returned.

### THE CRITERIA

#### Criterion One

*A good schedule must make it possible to provide and administer the kinds of learning experiences needed to implement the purposes for which the school exists.*

The specifications needed to satisfy this criterion follow:

1. The schedule must be flexible.
2. The schedule should make it possible for all pupils to participate in those learning experiences which the purposes of the school and the curriculum indicate they should have in common.
3. The schedule should permit, insofar as is possible, the kinds of instruction needed to achieve the purposes of the school.
4. A good schedule provides time for the free activities of the school program.
5. The schedule should make full use of all available devices to overcome handicaps due to small size of the various grades in the school.
6. The schedule should make possible the best educational program for each individual pupil.

#### Criterion Two

*A good schedule provides for the maximum utilization of all the human resources of the school for the benefit of the greatest number of pupils.*

The specifications needed to satisfy this criterion follow:

1. The schedule is most effective when each teacher has an assignment consistent with his training, talents, and interests.
2. The teaching load must be equitable.
3. The teaching load of each teacher must be within the physical capacity of the teacher.
4. The schedule should make possible the most favorable induction of beginning teachers.
5. The principal ought not to permit attention to management execution, and teaching, to invade the time that should be devoted to supervision, management planning, management control, and public relations.
6. The schedule should encourage, stimulate, and permit the most effective use of pupil leadership in carrying out the educational program of the school.
7. The schedule should make it possible to utilize fully the lay resources of the community.



### Criterion Three

*A good schedule provides for the maximum utilization of all physical resources of the school.*

The specifications needed to satisfy this criterion follow:

1. The standard classroom should be effectively and intelligently assigned and used.
2. The specially equipped rooms should be scheduled that their use makes the greatest contribution to the educational program of the school.
3. The schedule should make possible the use of all specialized units of the plant.
4. The schedule should make provision for full use of professional community resources.
5. The schedule should be so arranged that instructional aids can be used to the best advantage.

### Criterion Four

*A good schedule should facilitate an effective program of guidance.*

The specifications needed to satisfy this criterion follow:

1. Since the curriculum should provide a gradual and a continuous series of choices by the pupil, the schedule should assure its feasibility.
2. The schedule should minimize interference between guidance functions and classroom instruction by scheduling a definite time for the guidance service.
3. A good schedule should provide adequate time for counseling.
4. Time should be allowed in the schedule for follow-up work and placement.
5. Choices made by pupils under guidance should be respected.
6. The schedule should be flexible enough to allow a pupil to shift from one curriculum to another.
7. Each pupil should have the benefit of a continuous counseling service during his educational career.

## FINDINGS

Some of the more significant findings concerning the practices in the 297 selected small and medium-sized high schools as they supported or differed with the criteria and specifications include the following:

### Criterion One

In general the practices in the selected schools support the criterion and specifications. The evidence revealed that most schools follow practices which give some flexibility to the schedule, that some provisions are made for the pupils to get a program consistent with their individual needs and interests, and that the schedules do make reasonable provi-

sions for the use of appropriate kinds of instruction, such as field trips, community surveys, and other similar activities. Practically all of the schools recognize and provide for the free activities. Schools also used rather extensively such devices as alternating courses, combining classes, combining grades, and to a more limited extent, supervised correspondence courses.

#### Criterion Two

Most schools follow practices which give teachers assignments consistent with their training, talents, and interests. Teachers also receive assignments in a reasonably narrow range of subject fields. The number of different pupils for which a teacher is responsible is usually fewer than 150. The programs of the schools include a wide range of activities other than the subject offerings. The pupil-teacher ratio in most schools is fewer than twenty-five. Many schools follow a general policy of giving each teacher at least one free period a day. Beginning teachers in a number of the schools are assigned a slightly lighter load than that assigned to the experienced teachers. Principals in the majority of the schools have some time for general supervision of the total school program. In most of the schools a rather wide range of opportunities is provided to encourage, stimulate, and develop pupil leadership skills.

#### Criterion Three

Most of the schools have an adequate number of standard classrooms. In some schools the number of specially equipped rooms is inadequate, thus handicapping the school in its efforts to provide an appropriate and varied program. Many of the schools are faced with a lack of, or an inadequate number of specialized units; namely, cafeterias, auditoriums, gymnasiums, and showers. All but a very few schools have a library large enough to accommodate a class of twenty-five to forty-five pupils. Community resources in the form of public libraries, public parks and playgrounds, museums, community bands, and community dramatic organizations are entirely lacking in many of the communities. In the communities where these facilities exist they are not widely used nor unified to any great extent with the school program. The whole matter of adequately equipped school buildings with ample provision for the specialized units needed, is one that needs to be given careful study, especially when new buildings are being planned.

#### Criterion Four

Pupils in practically all of the schools are given the opportunity to learn about the offerings of the school, and to choose their courses under the guidance of the school personnel. Parents are kept advised on the selection of the courses made by their children through mimeographed and printed materials, conferences, and special meetings of the parent-



teacher association, and by having the opportunity to sign the registration card of their child or children. The guidance service in the schools is weakest in respect to the adequacy of the information about the pupils served, and sufficient allocation of teacher time for systematic and continuous counseling for all pupils. Many of the schools do have a commendable program of guidance and practically all indicate that they recognize its importance and are moving toward a better and more unified program.

#### RECOMMENDATIONS

The recommendations which follow stem from the data gathered concerning the practices followed in 297 selected small and medium-sized high schools, and from the experience of the writer as high school principal and state supervisor of high schools. To meet adequately the standards represented by the criteria, the following recommendations are made:

##### Criterion One

1. A seven-period school day is most desirable.
2. Class periods of fifty-five to sixty minutes have been found most satisfactory.
3. The length of class periods should be, insofar as is possible, adjusted to the various types of work characteristic of the several subjects.
4. For some subjects such as music, physical education, social studies, English, home economics, and others, the regular groups might be scheduled several times per week for certain aspects of the work; then two or more of these groups brought together for other phases of the work.
5. Subjects should be scheduled during a different period each day.
6. Remedial and refresher courses should be provided for those pupils for whom achievement and diagnostic tests indicate need.
7. An activity period should be provided in the schedule for each day of the week.
8. Alternating of courses in certain subjects, e.g., chemistry and physics, algebra I and plane geometry, is recommended as one good way of expanding the offerings in small and medium-sized schools.
9. Pupils from more than one grade may be combined for instruction in some elective subjects; for example, industrial arts.
10. When the enrollment in a grade justifies one section only, two grades may be combined in certain subjects required of all pupils, and these pupils regrouped for teaching purposes.
11. Use of supervised correspondence courses in those cases where the organization of a class cannot be justified or where there is no teacher available for the course or courses in question.



### Criterion Two

1. A teacher should not be assigned to teach in a field in which he lacks training, nor assigned to extra duties in which he lacks interest.
2. Teachers who are certified in more than one field should be given an opportunity to choose the fields in which they are most interested.
3. A teacher should not be assigned to teach in more than two different subject fields, preferably in only one.
4. The number of different pupils assigned to each teacher should be as nearly equal and as small as it is possible to make it.
5. Duties other than teaching should be considered as part of the regular teacher load.
6. Each teacher should have at least one unassigned period each day.
7. Each teacher should be assigned, insofar as is possible, to teach in one room.
8. Teachers' schedules should be arranged so that the work load is balanced reasonably well, e.g., not all of the difficult subjects and classes scheduled consecutively.
9. Beginning teachers should always have teaching assignments which fall within the fields of their certification.
10. The beginning teacher should be given classes in which he has the best chance of success.
11. For every one hundred pupils enrolled, the principal should devote one period per day to duties other than administrative routine and teaching.
12. Lay persons in the school community can and should be used for some or all of the following:
  - a) To assist in the instructional and activity program of the school.
  - b) To assist with office work, helping in the cafeteria, serving as helper in the library.
  - c) To teach pupils who may be excused from school for instruction not regularly provided (e.g.—music).

### Criterion Three

1. Before assigning a teacher to a room, consideration should be given to the adequacy of the physical facilities with respect to size and equipment.
2. Rooms equipped with special types of facilities should be utilized to the fullest for those subjects requiring the use of the special equipment.
3. The school library should be available every period of the day for both pupil and teacher use.



4. For the small school which cannot justify a full-time librarian the following standard is proposed: for every one hundred pupils enrolled there should be a qualified person with at least one period per day to devote to library service.

5. The cafeteria, when not being used for the lunch program, might well be used for study groups, meetings at which two or more class groups are brought together, social affairs, and other activities.

6. The auditorium can be used effectively for bringing several class sections together for panel discussions, open forums, group singing, and many other activities in addition to the regular assembly.

7. Separate facilities should be provided for the physical education and auditorium activities.

8. Every room should be equipped to use the more common and particularly the cheaper types of visual aids.

#### Criterion Four

1. Parallel courses should be provided in the schedule, thereby making it possible for a pupil to shift from one curriculum to another.

2. The teacher or teachers responsible for counseling should have time provided in the schedule for this service. The following standard is suggested for every one hundred pupils enrolled there should be someone with at least one free period per day to devote to guidance.

3. Where the teacher time provided for guidance services is one-half day or less, it is suggested that one person be assigned this responsibility.

4. Placement and follow-up should be considered a part of the responsibility of the vocational teachers in the school. Time should be allowed for these services. The following standard is suggested: in small schools with two or more vocational teachers at least one period per day should be provided one of these teachers for placement and follow-up.

5. A systematic guidance program, including counseling, should be provided for a pupil from his first day in school to the time of his leaving.

